

1/2682
FIGURE 1A

CGGGCTCTTGTGTGAGGGCCTGTGGGATTCTCCGGATATGCGCGGAGTGTTCCTTATCGAGGGCCGGGTAACC
CGGTGCCTGGCCCTCTAGCCCCGCTACCGGACTACATGTGCGGAGGAGAAGCTGCAGGAGAAAGCTCGAAAATGGC
AGCAATTGCAGGCCAAGCGCTATGCAGAAAAGCGGAAGTTTGGGTTTGTGGATGCCAGAAAGACATGCCCC
CAGAACATGTCAGGGAGATCATTGAGACCATGGAGACATGACCAACAGGAAGTTCCGCCATGACAAAAGGGTTT
ACTTGGGTGCCCTAAAGTACATGCCCCACGCGAGTCTCAAACCTCTGGAGAACATGCCTATGCCTTGGGAGCAGA
TTCGGGATGTGCCCGTGTGTACACATCACTGGAGCCATTTCCTTCGTCAATGAGATTCCCTGGGTCAATTGAAC
CTGTCTACATCTCCAGTGGGGGTCAATGTGGATTATGATGCGCCGAGAAAAAGAGATAGGAGGCATTTCAAGA
GAATGCGTTTTCCCTTTTGTATGATGAGGAGCCGCCCTTGGACTATGCTGACAACATCTAAATGTTGAGCCAC
TGGAGGCCATTAGCTAGAGCTGGACCCTGAGGAGGAGCCCTGTGTGGACTGGTTCTATGACCACCAGCCGT
TGAGGGACAGCAGGAAGTATGTAAATGGCTCCACTTACCAGCGCTGGCAGTTCACACTACCTATGATGTCAACTC
TCTACCGCTGGCTAATCAGCTCCTGACAGACTTGGTGGATGACAACACTTCTACCTGTTTGAATTTGAAGGCCT
TCTTTACGTCCAAGGCACTCAATATGGCCATTCTGGAGGCCCAAAATTTGAACCTCTTGTTCGAGACATCAACC
TACAGGATGAAGACTGGAATGAATTCAATGATATTAACAAGATTATCATCCGGCAGCCTATCCGGACTGAGTACA
AGATTGCTTTTCCTTACTTGTACAACAATCTTCCACACCATGTCCACCTCACCTGGTACCATACTCCCAATGTTG
TATTCATCAAAACTGAAGATCCTGACTTGGCAGCTTTCTACTTTGACCCTTTGATCAACCCAACTCTCCCATAGGC
ACTCAGTCAAGAGCCAGGAACCATTGGCCGATGATGATGAGGAATTTGAGCTCCCGGAGTTTGTGGAGCCCTTCC
TGAAGGACACACCCCTCTATACAGACAATACAGCCAATGGCATTGCCCTGCTCTGGGCCCCGCGGCCCTTCAACC
TACGCTCTGGTTCGACCCGTCGGGCCCTGGACATAACCCCTGTCAAGAACTGGTATCGGGAGCATTGTCTGCGG
GGCAGCCTGTGAAGTGAAGGTCTCTCTACCAGAAGCTGCTTAAGTACTATGTGCTGAATGCCCTGAAGCATCGGC
CCCCTAAGGCTCAAAAGAAGAGGTATTTGTTCCGCTCCTTCAAAGCCACCAAATTTCTTTCAGTCCACAAAGCTGG
ACTGGGTGGAGGGTTGGCTCCAGGTTTGGCCGAGGGCTACAACATGCTCAACCTTCTCATTACCGCAAAAACC
TCAACTACCTGCACCTGGACTACAACCTTCAACCTCAAGCCTGTGAAAACGCTCACCACCAAGGAAAGAAAGAAAT
CTCGTTTTTGGGAATGCTTTCCACCTGTGTGCGGAAGTTCTGCGTTTACTAAGCTGGTGGTGGATAGTCACGTGC
AGTATCGGCTGGGCAATGTGGATGCCTTCCAGCTGGCAGATGGATTGCAGTATATATTTGCCCATGTTGGGCAGT
TGACGGGCATGTATCGATACAATAACAAGCTGATGCGACAGATTGCGGTGTGCAAGGACCTGAAGCATCTCATCT
ATTATCGTTTTCAACACAGGCCCTGTAGGGAAGGGTCTGGCTGTGGCTTCTGGGCTGCCGGTTGGCGAGTCTGGC
TCTTTTTTCATGCGTGGCATTACCCCTTTATTAGAGCGATGGCTTGGCAACCTCTGGCCCCGCGAGTTTGAAGGTC
GACACTCAAAGGGGGTGGCAAAGACAGTAACAAAGCAGCGAGTGGAGTCACATTTTGACCTTGAGCTGCGGGCAG
CTGTGATGCATGATATTCTGGACATGATGCCTGAGGGGATCAAGCAGAAACAGGCCCGGACAATCTGCAGCACC
TCAGTGAAGCCTGGCGCTGTGGAAGCCAACATTCCCTGGAAGGTCCCTGGGCTGCCGACGCCCATAGAGAATA
TGATCCTTCGATACGTGAAGGCCAAGGCTGACTGGTGGACCAACACTGCCCCTACAACCGAGAACGGATCCGCC
GAGGGGCCACTGTGGACAAGACTGTTTGTAAAAGAATCTGGGCCGCTCACC CGCTCTATCTGAAGGCAGAAC
AGGAGCGGCAGCACAACCTACCTGAAGGACGGGCCTTACATCACAGCGGAGGAAACAGTGGCAGTATATACCACCA
CAGTGCATTGGTTGGAAGCCGCGAGGTTTTACCCATCCCATTCCCCCACTCTCCTATAAGCATGACACCAAGT
TGCTCATCTTGGCATTGGAGCGGCTCAAGGAAGCTTATAGTGTGAAGTCTCGGTTGAACCACTCTCAGAGGGAGG
AGCTAGGTCTGATCGAGCAGGCCTACGATAACCTCCACGAGGCGCTGTCCCGCATAAAGCGTCACCTCCTCACAC
AGAGAGCCTTCAAAGAGGTGGGCATTGAGTTCATGGATCTGTATAGCCACCTCGTTCCAGTATATGATGTTGAGC
CCCTGGAGAAGATAACTGATGCTTACCTGGACCAGTACCTGTGGTATGAAGCCGACAAGCGCCGCTGTTCCAC
CCTGGATTAAGCCTGCAGACACAGAACCACCTCCACTGCTTGTTTACAAGTGGTGTCAAGGCATCAATAACCTGC
AGGACGTGTGGGAGACGAGTGAAGGCGAGTGCAATGTGATGCTGGAATCCGCTTTGAGAAGATGTATGAGAAGA
TCGACTTGACTCTGCTCAACAGGCTCGTGCCTCATCGTGGACCACAACATAGCCGACTACATGACAGCCAAGA
ACAACGTCGTATCAACTATAAGGACATGAACCATAACGAATTCATATGGGATCATCAGAGGCCTGCAGTTTGCTT
CATTCATAGTGCAGTATTATGGCTGGTGGATTGCTTGTATTGGGATTGCACCGGGCCAGTGAGATGGCTG
GGCCCCCTCAGATGCCAAATGACTTTCTCAGTTTCCAGGACATAGCCACTGAGGCTGCCACCCCATCCGTCTCT
TCTGCAGATACATTGATCGCATCCATATTTTTCAGGTTTACAGCAGATGAGGCTCGGGACCTGATTCAACGTT
ACCTGACAGAGCACCCTGACCCCAATAATGAAAACATCGTTGGCTATAATAACAAGAAGTGTGCCCCGAGATG
CCCGCATGCGCCTCATGAAACATGATGTTAACTTAGGCCGGGCGGTATTCTGGGACATCAAGAACCCTTGCCAC
GGTCAGTGACTACAGTTCAGTGGGAGAACAGCTTCGTGTCTGTGTACAGTAAGGACAACCCCAACCTGCTGTTCA

2/2682
FIGURE 1B

ACATGTGTGGCTTCGAGTGCCGCATCCTGCCTAAGTGCCGCACCAGCTATGAGGAGTTACCCACAAGGACGGGG
TCTGGAACCTGCAGAAATGAGGTTACTAAGGAGCGCACAGCTCAGTGTTCCTGCGTGTGGACGATGAGTCAATGC
AGCGCTTCCACAACCGCGTGCCTCAGATTCTCATGGCCTCTGGGTCCACCACCTTCACCAAGATTGTGAATAAGT
GGAATACAGCTCTCATTGGCCTTATGACATACTTTCGGGAGGCTGTGGTGAACACCCAAGAGCTCTTGGACTTAC
TGGTGAAGTGTGAGAACAAAATCCAGACACGTATCAAGATTGGACTCAACTCCAAGATGCCAAGTCGGTTCCCCC
CGGTTGTGTTCTACACCCCTAAGGAGTTGGGTGGACTCGGCATGCTCTCAATGGGCCATGTGCTCATCCCCCAAT
CCGACCTCAGGTGGTCCAAACAGACAGATGTAGGTATCACACACTTTCGTTTCAGGAATGAGCCATGAAGAAGACC
AGCTCATTCCCAACTTGTACCGCTACATACAGCCATGGGAGAGCGAGTTTATTGATTCTCAGCGGGTCTGGGCTG
AGTACGCACTCAAGAGGCAAGAGGCCATTGCTCAGAACAGACGCTGACTTTAGAAGACCTAGAAGATTTCATGGG
ATCGTGGCATTCTCTGAATCAATACCCCTCTTCAGAAGGACCGGCACACACTGGCTTATGATAAGGGCTGGCGTG
TCAGAACTGACTTTAAGCAGTATCAGGTTTTGAAGCAGAATCCGTTCTGGTGGACACACCAGCGGCATGATGGGA
AGCTCTGGAACCTGAACAACTACCGTACAGACATGATCCAGGCCCTGGGCGGTGTGGAAGGCATTCTGGAACACA
CACTCTTTAAGGGCACTTACTTCCCTACCTGGGAGGGGCTTTTCTGGGAGAAGGCCAGTGGCTTTGAGGAATCTA
TGAAGTGAAGAAGCTAACTAATGCTCAGCGATCAGGACTGAACCAGATTCCCAATCGTAGATTACCCCTCTGGT
GGTCCCCGACCATTAAATCGAGCCAATGTATATGTAGGCTTTCAGGTGCAGCTAGACCTGACGGGTATCTTCATGC
ACGGCAAGATCCCCACGCTGAAGATCTCTCTCATCCAGACTTTCAGGCTCACTTGTGGCAGAAGATCCATGAGA
GCATTGTTATGGACTTATGTCAGGTGTTTGACCAGGAACCTTGATGCCTGGAATTGAGACAGTACAAAAGGAGA
CAATCCATCCCCGAAAGTCATATAAGATGAACCTTTCCTGTGCAGATATCCTGCTCTTTGCCCTCTATAAGTGA
ATGTCTCCCGGCCCTCATTGCTGGCTGACTCCAAGGATGTGATGGACAGCACCACCACCGAATACTGGATTG
ACATCCAGTTGCGCTGGGGGACTATGATTCCACGACATTGAGCGCTACGCCCCGGGCCAAGTTTCTGGACTACA
CCACCGACAACATGATATCTACCCCTTCGCCCACAGGTGACTCATCGCCATTGACCTGGCCTATAACTTGCACA
GTGCCTATGGAACCTGGTTCAGGCGAGCAAGCCTCTCATACAACAGGCCATGGCCAAGATCATGAAGGCAACC
CTGCCCTGTATGTTACGTGAACGGATCCGCAAGGGGTACAGCTCTATTTCATCTGAACCCACTGAGCCTTATT
TGCTTCTCAGAACTATGGTGAGCTCTTCTCCAACCAGATTATCTGGTTTGTGGATGACACCAACGTCTACAGAG
TGACTATTCAACAAGACCTTTGAAGGGAACCTTGACAACCAAGCCCATCAACGGAGCCATCTTCATCTTCAACCCAC
GCACAGGGCAGCTGTTCTCAAGATAATCCACACGTCCGTGTGGGCGGGACAGAAGCGTTTGGGGCAGTTGGCTA
AGTGGAAGACAGCTGAGGAGGTGGCCGCCCTGATCCGATCTCTGCCTGTGGAGGAGCAGCCCCAAGCAGATCATTG
TCACCAGGAAGGGCATGCTGGACCCACTGGAGGTGCACTTACTGGACTTCCCCAATATTGTTCATCAAAGGATCGG
AGCTCCAACCTCCCTTTCCAGGCGTGTCTCAAGGTGGAATAATTCGGGGATCTCATCCTTAAAGCCACTGAGCCCC
AGATGGTTCTCTTCAACCTCTATGACGACTGGCTCAAGACTATTTTCATCTTACACGGCCTTCTCCCGTCTCATCC
TGATTCTGCGTGCCCTACATGTGAACAACGATCGGGCAAAAGTGATCCTGAAGCCAGACAAGACTACTATTACAG
AACCACACCACATCTGGCCCACTCTGACTGACGAAGAATGGATCAAGGTGAGGTGAGCTCAAGGATCTGATCT
TGGCTGACTACGGCAAGAAAAACAATGTGAACGTGGCATCACTGACACAATCAGAAATTCGAGACATCATCCTGG
GTATGGAGATCTCGGCACCGTACAGCAGCGGCAGCAGATCGCTGAGATCGAGAAGCAGACCAAGGAACAATCGC
AGCTGACGGCAACACAGACTCGCACTGTCAACAAGCATGGCGATGAGATCATCACCTCCACCACCAGCAACTATG
AGACCCAGACTTTCTCATCAAGACTGAGTGGAGGGTCAAGGCCATCTCTGCTGCCAACCTGCACCTAAGGACCA
ATCACATCTATGTTTCATCTGACGACATCAAGGAGACTGGCTACACCTACATCCTTCCCAAGAATGTGCTTAAGA
AGTTTCATCTGCATATCTGACCTTCGGGCCCCAATTCAGGATACCTATATGGGGTGAGCCACCAGATAACCCCC
AGGTGAAGGAGATCCGCTGCATTGTGATGGTGCCGAGTGGGGCACTCACCAGACCGTGCACCTGCCTGGCCAGC
TGCCCCAGCATGAGTACCTCAAGGAGATGGAACCCTTAGGTTGGATCCACACTCAGCCCAATGAGTCCCCGAGT
TATACCCCCAGGATGTACCACCCATGCCAAGATCATGGCTGACAACCCATCTTGGGATGGCGAGAAGACCATTA
TCATCACATGCAGCTTCACGCCAGGCTCCTGTACACTGACGGCTTACAAGCTGACCCCAAGTGGCTACGAATGGG
GCCGCCAGAACACAGACAAGGGCAACAACCCCAAGGGCTACCTGCCTTCACACTATGAGAGGGTGCAGATGCTGC
TGTCGGACCGTTTCTTGGCTTCTTCATGGTCCCTGCCAGTCTCGTGGAATACTCACTTCATGGGTGTTCGGC
ATGACCCCAACATGAAATATGAGCTACAGCTGGCGAACCCCAAGAGTTCTACCACGAGGTGCACAGGCCCTCTC
ACTTCTCAACTTGTCTCCTGCAGGAGGGGGAGGTTTACTCTGCGGATCGGGAGGACCTGTATGCCTGACCGT
TTCCCTGCCTCTGCTTACGCTCCCGAGGCCGAAGCTCAGCCCTCCAGACAGGCCGTGACATTACGAGTT
TGGCCTCTTCCCTCTGTCTGTGCTTGTGTTGACCTCCTGATGGCTGTCTATCCTGAATAAAATATAATAAT

3/2682
FIGURE 1C

AAATTTTGTATAAATAGG

4/2682
FIGURE 2

MAGVFPYRGPNGPVGPLAPLPDYMSEEKLOEKARKWQLOAKRYAEKRKFGFVDAQKEDMPPEHVREIIRDHGD
MTNRKFRHDKRVYLGALKYMPHAVLKLENMMPWEQIRDVPVLYHITGAISFVNEIPWVIEPVYISQWGSWMIM
MRREKRDRRHFKRMRFPPFDDEEPPLDYADNINLNEVPLEAIOLELDPEEDAPVLDWFDYHQPLRDSRKYVNGSTY
QRWQFTLPMSTLYRLANQLLTDLVDDNYFYFLFDLKAFFTSKALNMAIPGGPKFEPLVRDINLQDEDWNEFNDIN
KIIIRQPIRTEYKIAFPYLYNNLPHHVHLTWYHTPNVVF IKTEDPDLPAFYFDPLINPISHRHSVKSQEPLPDD
EEFELPEFVEPFLKDTPLYTDNTANGIALLLWAPRPFNLRSGRTRRALD IPLVKNWYREHCPAGQPVKVRVSYQKL
LKYVVLNALKHRPFAKQKKRYLFRSFKATKFFQSTKLDWVEGWLQVCRQGYNMLNLLIHRKNLNYLHLDYFNELK
PVKTLTTKERKKSREGNFHLCREVLRLTKLVDSHVQYRLGNVDAFQLADGLQYIFAHVGQLTGMRYKYKLMR
QIRVCKDLKHLIYYRFNTGPVGKPGCGFWAAGWRVWLFMMRGITPLERWLGNNLARQFEGRHSGVAKTVTKQ
RVESHFDLELRAAVMHDILDMPEGIKQNKARTILOHLSEAWRCWKANIPWKVPGPLPTPIENMILRYVKAKADWW
TNTAHYNRERIRRGATVDKTVCKKNLGRRLTRLYLKAQEQRQHNYLKDGPYITAEETVAVYTTTVHWLESRRFSP
PFPPLSYKHDTKLILALERLKEAYSVKSRLNQSQRRELGLIEQAYDNLHEALSRIKRHLTQRAFKEVGIEFMD
LYSHLVVPVYDVEPLEKITDAYLDQYLWYADKRRLFPPWIKPADTEPPPLLVYKWCQGINNLQDVWETSEGEENV
MLESRFKMYEKIDLTLLNRLVRLIVDHNIAADYMTAKNNVVINYKDMNHTNSYGIIRGLQFASFIVQYYGLVMDL
LVLGLHRASEMAGPPQMPNDFLSFQDIATEAAHPIRLFCRYIDRIHIFFRFTADEARDLIQRYLTHEHPDPNNENI
VGYNNKKCWPRDARMRLMKHDVNLGRAVFWDIKNRLPRSVTTVQWENSFVSVYSKDNPNLLFNMGCFECRILPKC
RTSYEEFTHKDGWNLQNEVTKERTAQCFLRVDDDESMQRFHNRVRQILMASGSTTFTKIVNKWNTALIGLMTYFR
EAVVNTQELLDLLVKCENKIQTRIKIGLNSKMPSRFPPVVFYTPKELGGLGMLSMGHVLIPOSDLRWSKQTDVGI
THFRSGMSHEEDQLIPNLYRYIQPWESEFIDSQRVWAEYALKRQEAIAQNRRLTLEDLEDSDWRGIPRINTLQFQ
DRHTLAYDKGWRVRTDFKQYQVLKQNPFWWTHQRHDGKLWNLNNYRTDMIQALGGVEGILEHTLFKGTYPFTWEG
LFWEKASGFEE SMKWKLTNAQRSGLNQIPNRRFTLWWSPTINRANVYVGFQVQLDLTGIFMHGKIPTLKISLIQ
IFRAHLWQKIHE SIVMDLCQVFDQELDALEIETVQKETIHPKRSYKMNSSCADILLFASYKWNVSRPSLLADSKD
VMDSTTTQKYWIDIQLRWGDYDSDHDIERYARAKFLDYTTDNMSIYPSPTGVLIAIDLAYNLHSAYGNWFFPGSKPL
IQQAMAKIMKANPALYVLRERIRKGLQLYSSEPTEPYLSSQNYGELFSNQIIWFVDDTNVYRVTIHKTFEGLTT
KPINGAIFIFNPRIGQLFLKIHTSVWAGQKRLGQLAKWKTAEEVAALIRSLPVEEQPKQIIIVTRKGMLDPLEVH
LLDFPNIVIKGSELQLPFQACLKVEKFGDLILKATEPQMVLFNLYDDWLKTISSYTAFSRLILILRALHVNNDR
KVILKPKDKTITEPHHIWPTLTDEEWIKVEVQLKDLILADYGKKNVNVVA

5/2682
FIGURE 3

GAATTCGGCACGAGATAAAAAATGGCTTCCAAAAGAGCTCTGGTCATCCTGGCTAAAGGAGCAGAGGAAATGGAGA
CGGTCATCCCTGTAGATGTCATGAGGCGAGCTGGGATTAAGGTCACCGTTGCAGGCCTGGCTGGAAAAGACCCAG
TACAGTGTAGCCGTGATGTGGTCATTTGTCCTGATGCCAGCCTTGAAGATGCAAAAAAGAGGGACCATATGATG
TGGTGGTTCTACCAGGAGGTAATCTGGGCGCACAGAATTTATCTGAGTCTGCTGCTGTGAAGGAGATACTGAAGG
AGCAGGAAAACCGGAAGGGCCTGATAGCCGCCATCTGTGCAGGTCTCTACTGCTCTGTTGGCTCATGAAATAGGTT
GTGGAAGTAAAGTTACAACACACCCTCTTGCTAAAGACAAAATGATGAATGGAGGTCATTACACCTACTCTGAGA
ATCGTGTGGAAAAGACGGCCTGATTCTTACAAGCCGGGGCCTGGGACCAGCTTCGAGTTTGGCCTTGCAATTG
TTGAAGCCCTGAATGGCAAGGAGGTGGCGGCTCAAGTGAAGGCTCCACTTGTTCTTAAAGACTAGAGCAGCGAAC
TGCGACGATCACTTAGAGAAACAGGCCGTTAGGAATCCATTCTCACTGTGTTGCTCTAAACAAAACAGTGGTAG
GTTAATGTGTTTCAAGTCGCTGTCCTTACTACTTTTGCAGGAGTATGGAAGTCACAACACAGAGATTTCTC
AGCCTACAAATTGTGTCTATACATTTCTAAGCCTTGTTTGCAGAATAAACAGGGCATTAGCAAACATAAAAAAA
AAAAAAAACCTCGAG

6/2682
FIGURE 4

MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAGKDPVQCSRDVVICPDASLEDAKKEGPYDVVVLPGG
NLGAQNLSESAVKEILKEQENRKGLIAAICAGPTALLAHEIGCGSKVTTHPLAKDKMMNGGHYTYSENRVKDG
LILTSRGPGTSFEFALAIVEALNGKEVAAQVKAPLVVKD

7/2682
FIGURE 5

TTTTGTGAAGAGACGAAGACTGAGCGGTTGTGGCCGCGTTGCCGACCTCCAGCAGCAGTCGGCATTCTCTAACGC
AGAAACCCGGGAGTAGGAGACTCAGAATCGAATCTCTTCTCCCTCCCTTCTTGTGAGATTTTTTTGATCTTCAG
CTACATTTTCGGCTTTGTGAGAAACCTTACCATCAAACACGATGGCCAGCAACGTTACCAACAAGACAGATCCTC
GCTCCATGAATCCCCTGTATTTCATTGGGAATCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGGCAATCT
TTTCGAAGTATGGCAAAATTGTGGGCTGCTCTGTTTCATAAGGGCTTTGCCTTCGTTTCAGTATGTTAATGAGAGAA
ATGCCCGGGCTGCTGTAGCAGGAGAGGATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAG
AGCCAAAAGTGAACCGAGGAAAAGCAGGTGTGAACGATCTGCAGCGGAGATGTACGGGTTCAGTAACAGAACACC
CTTCTCCGTCCCTCTACTCAGCTCCTCTTTTGACTTGGACTATGACTTTCAACGGGACTATTATGATAGGATGT
ACAGTTACCCAGCAGTGTACCTCCTCCTCCTATTGCTCGGGCTGTAGTGCCCTCGAAACGTCAGCGTGTAT
CAGGAAACACTTCACGAAGGGGCAAAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTCTGGAA
AGTTGAAAGGAGATGACCTTCAGGCCATTAAGAAGGAGCTGACCCAGATAAAACAAAAAGTGGATTCTCTCCTGG
AAAACCTGGAAAAATGGAAGGAACAGAGCAAAACAAGCAGTAGAGATGAAGAATGATAAGTCAGAAGAGGAGC
AGAGCAGCAGCTCCGTGAAGAAAGATGAGACTAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGACTCTGCTG
AGGAGGGGGACCTACTGGATGATGATGATAATGAAGATCGGGGGGATGACCAGCTGGAGTTGATCAAGGATGATG
AAAAAGAGGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGAGGATGACTCTTAAGCACATAGTGGGGTT
TAGAAATCTTATCCCATTATTTCTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTTACCAGATCCTCTCCCTA
GTATCTTCAGCACATGCTCACTGTTCTCCCCATCCTTGTCTTCCCATGTTTATTATTCATATTGCCCCGCGCC
TAGTCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTGTGTTAAGTCTTACCCTGTAATTTTGTCTTTAATTT
TGATACCTCTTTATGACTTAACAATAAAAAGGATGTATGGTTTTTATCAACTGTCTCCAAAATAATCTCTTGTTA
TGCAGGGAGTACAGTTCTTTTCATTACATAAGTTTCAGTAGTTGCTTCCCTAACTGCAAAGGCAATCTCATT
AGTTGAGTAGCTCTTGAAAGCAGCTTTGAGTTAGAAGTATGTGTGTTACACCCTCACATTAGTGTGCTGTGTGGG
GCAGTTCAACACAAATGTAACAATTATTTTGTGAATGAGAGTTGGCATGTCAAATGCATCCTCTAGAAAAATAA
TTAGTGTATAGTCTTAAGATTTGTTTTCTAAAGTTGATACTGTGGGATTTTGTGAACAGCCTGATGTTTGGGA
CCTTTTTCTCTCAAAATAACAAGTCCTTATTAAACCAGGAATTTGGAG

8/2682
FIGURE 6

MASNVTKTDPRSMNSRVFIGNLNTLVVKKSDVEAIFSKYKIVGCSVHKGFVQYVNERNARA AVAGEDGRMI
AGQVLDINLAAEPKVN RGKAGVKRSAAEMYGSVTEHPSPSPLLSSSFDLDYDFQRDYYDRMYSYPARVPPPPPIA
RAVVPSKRQRVSGNTSRRGKSGFNSKSGQRGSSKSGKLKGDDLQAIKKELTQIKQKVD SLENLEKMEKEQSKQA
VEMKNDKSEEEQSSSSVKKDET NVKMESEGGADDSAEEGDLLDDDDNEDRGDDQLELIK DDEKEAEEGEDDRDSA
NGG

9/2682
FIGURE 7

CCGACATGTTGAGTCATAAGACGCGTCGGTGTGTCAGTCTGTGTCCTTGGAGGTGACCAGGGCCACTGCAGGCAT
GGTGCTAGCAGAGCTGTACGTCTCTGACCGAGAGGGAAGCGATGCCACGGGAGATGGAACCAAGGAGAAACCATT
TAAACAGGTCTAAAGGCTTTGATGACAGTAGGGAAAGAACCATTTCCTACCATTTACGTAGATTACAAAAAGA
AAATGAGAGGTGGAATGTTATTTCTAAATCACAGTTGAAGAACATTAAAAAGATGTGGCATAGGGAAACAAATGAA
GAGTGAATCCCGGAAAAGAAAGAGGCAGAGATAGTTTACGAAGAGAAAAGAACCTGGAAGAAGCAAAGAAGAT
TACCATTAAAAATGATCCAAGTCTCCCAGAGCCAAAATGTGTGAAGATTGGTGCCTTAGAAGGATATAGAGGCCA
AAGAGTAAAGGTGTTTGGCTGGGTCCACAGGCTGCGCAGGCAAGGAAAGAATTTAATGTTTCTGGTGTGCGAGA
TGGTACAGGTTATCTTCACTGTGTCTTGGCGGATGAGTTGTGTGCTAGTGCTACAATGGAGTTCTCTTGTCCACGGA
GAGCAGTGTGTCAGTGTATGGAATGCTAAATCTTACCCCAAAGGGCAAGCAGGCTCCAGGTGGCCATGAGCTGAG
TTGTGACTTCTGGGAATAATTGGGTTGGCCCTGCTGGAGGAGCTGACAACCTGATCAATGAGGAGTCTGACGT
TGATGTCCAGCTCAACAACAGACACATGATGATCCGAGGAGAAAACATGTCCAAAATCCTAAAAGCAGCATCCAT
GGTCACCAGGTGCTTTAGAGATCACTTCTTTGATAGGGGGTACTATGAAGTTACTCCTCCAACATTAGTGCAAAAC
ACAAGTAGAAGGTGGTGCCACACTCTTCAAGCTTGACTATTTTGGGGAAGAGGCATTTTGTACTCAATCCTCTCA
GTTGTACTTGGAGACCTGCCCTCCCAGCCCTGGGAGATGTTTTTTGTATTGCTCAGTCATACCGGGCAGAGCAGTC
CAGAACACGAAGGCACCTGGCTGAGTACACTCAGTGGAAGCTGAGTGTCTTTCTGACTTTTGACGACCTCCT
GAACCGGTTGGAGGACTTGGTTTGTGATGTGGTAGATCGAATATTGAAGTCACCTGCAGGGAGCATAGTGCATGA
GCTCAACCCGAACTTTACGCCCCCAACCGGCCTTTCAAACGGATGAAGTATTGATGCTATCGTTTGGCTAAA
AGAACATGATGTAAAGAAAGAAGATGGAACCTTTCTATGAATTTGGAGAAGATATCCAGAAGCTCCTGAGAGACT
GATGACAGACACCATTAAATGAACCAATCTTGCTGTGTCGATTTCCTGTGGAGATCAAGTCTTCTACATGCAGCG
ATGTCTGAGGATTCCCGTCTTACTGAATCTGTGCGAGCTGTTGATGCCCAATGTTGGTGAGATTGTGGGAGGCTC
AATGCGTATCTTTGATAGTGAAGAAATCTGGCAGGTTATAAAAGGGAAGGGATTGACCCCACTCCCTATTACTG
GTATACGGATCAGAGAAAATACGGTACATGTCCCCATGGAGGATATGGCTTGGGCTTGGAACGATTCTTAACGTG
GATTCTGAATAGGTATCACATCCGAGACGTGTGCTTATACCTCGATTTGTCCAGCGTTGCACGCCATTAACCAT
TTCTCCAGAAGCGTGGAGGAAAGATTATGAAAGGAACAGGCTCTTTAAAAAGAAAACAAAAGCCAGAATCTTC
CTTTTTTTTGTTCATTGGGGTTTCTCTTTCTGTTTTCTTTCTACTACCATAAAAACTATCTCAAATCACCTGA
ACATCAAGTGATATTAAGGTTGTCATCTTAAGAAAAATATCCATTTTTTTCTTAAGTTCGGGAAACAAAGTTCG
GGGAAAATACCTGGCATGAACTGTAGTTAGGGATACATTTACGATTTTACTCACTTTATCCAAGTTATTCATT
TTATTCAAGTTATATGTATGTATAAATCAACAATTTTAGATTATGGTGTAAGATACTCCAGTAACTATCTTTCT
GTCCTTTTAAGTGACCTGGAATCTTTGATTATTTTTATTGCATCAATGAATTAACAAAAATCTTGGGGGAA
GAAATTGGCAATATCGTATAAAAAATCTGCTCATATTAGAACACAGTATAATTACGACAGTAAACACTAGAATCAAA
TGAATAGCCTTTTGTATCAGTTATTAATCTTTTCTAACTCTGCTTAGCTGCTAATAATCCTGAGGCATAGAAAT
GAAGAATTTGTAAAAATAGAATTGCCTTAAAGGATTGAAGTAAGAACATAATTTTGGGAGAGTTTTTTAGTGA
TTCACAGTATCCCTCTTAGCATTAAATTTAAGGTAAGAGGCAGATTGATTTTCCCTCTTCTGTTAATTCCTAA
GTAATTAAGAATAAATAAGTTCCAAAAGAAATTTAGCTGGAATCTTAATAACAATTGTGAGTGGCTGTTTGAAGT
TGCCCCCACCATGTCCTTAGATCTAATCTGTGCTACCTTATTAACCTACAGCAGGCTTACTGAATGGCTTCATTT
CAGATTTAGTTGATTTCTCCACCAAATGCATGTCATGTATTCTCAATAGGCTGTATTCCCAGCAGTCAATAAATG
AACACCCGTAAAAA

10/2682
FIGURE 8

MVLAELYVSDREGSDATGDGTKEKPFKTGLKALMTVGKEPFTIYVDSQKENERWNVISKSQLKNIKMMWHREQM
KSESREKKEAEDSLRREKNLEEAKKITIKNDPSLPEPKCVKIGALEGYRGQRVKVFGWVHRLRRQGKNLMFLVLR
DGTGYLQCVLADELQCQYNGVLLSTESSVAVYGMLNLTPKGKQAPGGHELSCDFWELIGLAPAGGADNLINEESD
VDVQLNNRHHMIRGENMSKILKARSMVTRCFRDHFFDRGYEVTPTLVQTQVEGGATLFKLDYFGEEAFLTQSS
QLYLETCLPALGDVFCIAQSYRAEQSRTRRHLAEYTHVEAECPLTFDDLLNRLEDLVCDVVDRLKSPAGSIVH
ELNPNFQPPKRPFKRMNYSDAIVWLKEHDVKKEDGTFYEFGEDIFEAPERLMTDTINEPILLCRFPVEIKSFYMQ
RCPEDSRLTESVDVLMPNVGEIVGGSMRIFDSEEILAGYKREGIDPTPYWYTDQRKYGTCPHGGYGLGLERFLT
WILNRYHIRDVCLYPRFVQRCTP

11/2682
FIGURE 9

GGCAGTCGCGGAAGGCGCGGGAGCTTGCGTGCTGCTGGGCTGAGCTGTCTGTCTCGTTTCTGTCCGCGCGCCCT
GCATCCCGGCCCGGGCGCCGCTGGAGGTCGCCGAGGAGCCACAGGGCTGACTGGTCTGCTGCCCGGGCCAGG
AGTGCCCTGGTGTAGCAGTCGCGGAGCCATCCCGCGCTCTGCTGCCATGACCGACTCTCCCTCAGAGGAGACTCT
TCCTCAGCGGTGGCTGCAGAGACAGATGAGCGGCGGCTCCTGGCCGCGGGACCGTGAGACGGGTTCGTGGCCGGC
CATTAGGGGGACGCTGCGACCACCGCTGCGCCCTCCGACTGGTTCTTGGGCCCCGAAGCTCGCGCGGG
CCCTGCGGGAGGCGGCATGCTCCCGGAGGCTGTGGCCGCTGGCTGGCGGGACGCGGGGCGGGGCGCTGT
GGCGCTTCTGGCCAAATCAGTGCCGCTTCGTACGGGCTGCGCGTGCGCGCGCAGCAGATCGCGCAGCTCTA
CGGCCGCTCTACTCCGAGAGCTACGCCGCTTCTCCTCGGCCGCTCTGGCGCGGCTGCACGGCGCTCTGG
CCATGCCTCTGCCTTGATGGCGGCTTAGCCGGCGCTTCGTCTTGGGACGAGGAGAGGATCCAGGAGGAGGAGTT
GCAGAGATCTATTAATGAGATGAAGCGGTTGGAAGAAATGTCAAATATGTTTCAGAGCTCTGGAGTCCAGCACA
CCCTCCAGAACCAGGCCCCAAGAGGGAATGAAGATTAGAGGGCAAAGAGCAACGTTGGGAAATGGTGAT
GGATAAGAAACACTTTAAGCTGTGGCGCGCCCAATTACAGGCACCCACCTTTACCAGTACCGAGTTTTTGGAAC
CTACACAGATGTGACACCTCGGCAGTTCTTCAATGTTACAGTGGACACAGAGTATAGAAAAAATGGGATGCCCT
GGTAATCAAGCTGGAGGTGATTGAGAGGATGTGGTTAGTGGTTCCGAGGTTCTTCACTGGGTAACCCATTTTCC
TTATCCAATGTACTCACGGGATTATGTTATGTTCCGCGGTATAGTGTGGATCAGGAAAACAACATGATGGTGT
GGTGTGCGGTGTGTGGAGCATCCGAGTGTGCCAGAGTCTCCAGAATTCGTCAGGGTCAGATCATATGAATCCCA
AATGGTTATCCGTCCCCACAAGTCATTTGATGAGAATGGCTTTGACTACTTACTAACAATACAGTGACAATCCCCA
AACGGTGTCTTCTCGCTACTGTGTTAGTTGGATGGTTTCCAGTGGCATGCCAGATTTCTGGAGAAGCTGCACAT
GGCCACTCTGAAAGCCAAAGATATGGAGATTAAAGTAAAGGACTACATCTCAGCTAAGCCTCTGGAAATGAGTAG
TGAAGCCAAGGCCACCAGCCAGTCTCTGAGCGAAAGAACGAGGGCAGCTGTGGCCCTGCTCGGATTGAGTATGC
TTGACAGGCTTTGGGATAAGAAGGGACAAGGTGCTTCTAGCCCTGTCTCAGTCCGTTATCACTCTGCTGTAGAAG
GGGGACATGCCACATGTATTAGAAGGCATCTGCTGTAACCTCCAGTGCAAGATAATTCAATAACTGATGTCCCAT
TTCATTAGAGCCCTTATTGCTCTTATCAAAACAGAAGAAGGCTACATTTGTGGGAGTGTGTATATTCTCAGG
CCAAGTGTGTTGAAATTCGGTATCTCACTGAGCTAATCTGGAACAAACCTCTCACCTCAGGCCAGAGGGGATGA
CCTCCATTGCTTCTCTGAGTAGTTTCTCTGCTGACATTTCCAAATCCCACCATCGATTGTGCAGCGCTTTGGAT
TTCCTTCACTTCTCCAGGTCCACCTGGAAAGTATAGTTGGCCAGTTGAGTCTCTCAAATGAGGGGCTACTGGGAG
TGCTCTTGGTAACAATCATGATGTGAATGGGTGTGAACGATACTTGGCTATGTTAAGTGCCTTGTCCGACCTTG
CTTTTATCTCTAGAGACATGAAGTTATTATTAATTTTTTTTTTTTAAAGTAGAGATGGAGTTTCACTCTGTTTC
CCAGGCTGGTCTTGAACCTCTGGGCCATGCCTGGCCAGGGACATGAATTTGTACAAAGAAATTTCCCTCCCTGCC
TGCACAATATCACCCATTGACTCACCTTATCCAAAGCAAGTTTCTGTGAATCGGCCAGTTCTTCTATATTCAAT
GGATCATTGCCTCCTTCTAACCTTCCCCATTTACCAAGAACACTGGGAGACTAATCCTTTTAGATAGTAGCTTT
TTGATGCTCAAAACATCACATTTAAATTTAGTTTAAAAATTTTTTAACTTTTGTGTCAAATAGGAGTTGAGGAAT
TGAGCAGGATTCTACCCTAGTCCGATTGTATAGAAAACACCATTTTGATTAGGTATTATTTTTCATATTTAGG
TTTGAATTTCTTTTTCAGAAGGCTAAAGTCAGAGGAATGGGGGCTGGGCCACTCCCTTGGAGCTCTCAGATCTA
CAGACAAGCTGTGTGAATGCATAGATGTAATCTTGTCTCAAATACTAATAACAGTGGAGATTGGTTTATGTTACC
ATTAAGTTCTCTAAAAAGTTTTCTTCTCTCTCAGAGCCAAAATAAAAGTGAACACTGTTTCAAGATAAGG
TCACAATCTGATGCTGTGAGTTTGACCGAGCTGGTTTGTCTTATGGTCATGCTGCAATTTGTTAGAATAATAGGG
ATCAAGTTTTAAATCCTCCTCTCCCTTTTTTCTGGAGTCTTGAGGGCCAGAGTTTTGTTTTTGTGTTTTGTTT
TTGTTTTCTGCTGCTACTGTTTTGTGGTGTGAAAAGTGGTTTAAACCTGAGACTAACTTAAACACTTCCCTTG
ACCTTCTTGTGCTGCTGTTTCTTGTGCAAGGAAGTAGCTGCCCCAGTGATGCTTGCCTTCTCCGCGTCAT
TGTTGGAAGAGGAGAGATGCATCGAGCAGTCCCAGCTGCTTTTCAATTATTACTTCTTCTTCCAGGACCTGACA
GAAGTCAGGGAAGAGTCCCTGGGTATGTCCAACTTAGCACCTGCAATTGTTGGGATGTGGATGGATGTGTGCA
TAAGAGAGAGAGAGAATATGTGTGTGTGTGTGCGTCTGCGAGCGCACACATGCACAAGTGCAGGAGGAGTTG
CGGTTGCTCCATGTTCTGACTTAGGGCAATTTGATTCTGCACTTGGGCTCTGTCTGTACAGTTACTCATGTCATT
GTAATGATTTCACTCCTAACTGTGACATTTTTATCAAATGTGTGAATAAATACATAAAGATTGGTACAAAAAAA
AAAAAAA

12/2682
FIGURE 10

MAALAGVFVWDEERIQEEELQRSINEMKRLEEMSNMFQSSGVQHHPPEPKAQTEGNEDSEGKEQRWEMVMDKKHF
KLWRRPITGTHLYQYRVFGTYTDVTPRQFFNVQLDTEYRKKWDALVIKLEVIERDVVSGSEVLHWVTHFPYPMYS
RDYVYVRRYSVDQENNMVLVSRAVEHPSVPESPEFVRVRSYESQMVIRPHKSFDENGFDYLLTYSDNPQTVFPR
YCVSWMVSSGMPDFLEKLHMATLKAKNMEIKVKDYISAKPLEMSSEAKATSQSSERKNEGSCGPRIEYA

13/2682
FIGURE 11

GCAACCTTTCCAAGGGAGTGGTTGTGTGATCGCCATCTTAGGGAAAAGATGTTCTCGTCCGTGGCGCACCTGGCG
CGGGCGAACCCCTTCAACACGCCACATCTGCAGCTGGTGCACGATGGTCTCGGGGACCTCCGCAGCAGCTCCCCA
GGGCCCACGGGCCAGCCCCGCCGCCCTCGCAACCTGGCAGCCGCCGCCGTGGAAGAGCAGTATAGCTGTGACTAT
GGATCTGGCAGATTCTTTATCCTTTGTGGACTTGGAGGAATTATTAGCTGTGGCACAACACATACAGCATTGGTT
CCTCTAGATCTGGTTAAATGCAGAATGCAGGTGGACCCCCAAAAGTACAAGGGCATATTTAACGGATTCTCAGTT
ACACTTAAAGAGGATGGTGTTCGTGGTTTGGCTAAAGGATGGGCTCCGACTTTTCCTTGGCTACTCCATGCAGGGA
CTCTGCAAGTTTGGCTTTTATGAAGTCTTTAAAGTCTTGTATAGCAATATGCTTGGAGAGGAGAATACTTATCTC
TGGCGCACATCACTATATTTGGCTGCCTCTGCCAGTGTGAATTCTTTGCTGACATTGCCCTGGCTCCTATGGAA
GCTGCTAAGGTTTCAATTCAAACCCAGCCAGGTTATGCCAACACTTTGAGGGATGCAGTCCCCAAATGTATAAG
GAAGAAGGCCTAAAAGCATTCTACAAGGGGGTTGCTCCTCTCGGATGAGACAGATACCATAACCATGATGAAG
TTCGCCTGCTTTGAACGTACTGTTGAAGCACTGTACAAGTTTGTGGTTCCTAAGCCCCGCAGTGAATGTTCAAAG
CCAGAGCAGCTGGTTGTAACATTTGTAGCAGGTTACATAGCTGGAGTCTTTTGTGCAATTGTTTCTCACCCCTGCT
GATTCTGTGGTATCTGTGTTGAATAAAGAAAAAGGTAGCAGTGCTTCTCTGGTCCTCAAGAGACTTGGATTTAAA
GGTGTATGGAAGGGACTGTTTGCCCGTATCATCATGATTGGTACCCTGACTGCACTACAGTGGTTTATCTATGAC
TCCGTGAAGGTCTACTTCAGACTTCCTCGCCCTCCCCACCTGAGATGCCAGAGTCTCTGAAGAAAAAGCTTGGG
TTAACTCAGTAGTTAGATCAAAGCAAATGTGGACTGAATCTGCTTGTGATCAGTGTGTTGAAGAAAGTGCAAAAG
GAACTTTTATATATTTGACAGTGTAGGAAATTGTCTATTCTGATATAATTACTGTAGTACTCTTGCTTAAGGCA
AGAGTTTCAGATTTACTGTTGAAATAAACCCAACTGTTTCATGAAAAAA

14/2682
FIGURE 12

MFSSVAHLARANPFNTPHLQLVHDGLGDLRSSSPGPTGQPRRPRNLAAAAVEEQYSCDYGSGRFFILCGLGGIIS
CGTHTALVPLDLVKCRMQVDPQKYKGIFNGFSVTLKEDGVRGLAKGWAPTFLGYSMQGLCKFGFYEVFKVLYSN
MLGEENTYLWRTSLYLAASASAEFFADIALAPMEAANKVRIQTQPGYANTLRDAAPKMYKEEGLKAFYKGVAPLWM
RQIPYTMKMFACFERTVEALYKFVVPKPRSECSKPEQLVVTFFVAGYIAGVFCAIVSHPADSVVSVLNKEKGSSAS
LVLKRLGFKGVWKGLFARIIMIGTLTALQWFIYDSVKVYFRLPRPPPEMPESLKKKLGLTQ

15/2682
FIGURE 13

CTGGAAGCGGGCGAGTCTCGTGCTGTGTCGGACCTGCAGCCCCTGGCCTTCCGCCACC**ATGG**AGTACCTCATCGG
TATCCAAGGCCCCGACTATGTTCTTGTGCGCTCCGACCGGGTGGCCGCCAGCAATATTGTCCAGATGAAGGACGA
TCATGACAAGATGTTTAAAGATGAGTGAAAAGATATTACTCCTGTGTGTTGGAGAGGCTGGAGACACTGTACAGTT
TGCAGAAATATATTCAGAAAAACGTGCAACTTTATAAGATGCGAAATGGATATGAATTGTCTCCACGGCAGCAGC
TAACTTCACACGCCGAAACCTGGCTGACTGTCTTCGGAGTCGGACCCCATATCATGTGAACCTCCTCCTGGCTGG
CTATGATGAGCATGAAGGGCCAGCGCTGTATTACATGGACTACCTGGCAGCCTTGGCCAAGGCCCTTTTGCAGC
CCACGGCTATGGTGCCTTCCCTGACTCTCAGTATCCTCGACCGATACTACACACCGACTATCTCACGTGAGAGGGC
AGTGGAACCTCCTTAGGAAATGTCTGGAGGAGCTCCAGAAACGCTTCATCCTGAATCTGCCAACCTTCAGTGTTCTG
AATCATTGACAAAAATGGCATCCATGACCTGGATAACATTTCCCTCCCAAACAGGGCTCCT**TAAC**ATCATGTCTT
CCCTCCCACTTGCCAGGGAACTTTTTTTTTGATGGGCTCCTTTATTTTTTTTCTACTCTTTTCAGGCGCACTCTTGA
TAAATGGTTAATTGAGAATAAAGGTGACTATGGATATAATTAGCCCTCTGGTCCAGGTCTCAGTTTACCTAATA
TTACCTCAGAAAGGATATGGAGGGAAGATGATCTTTTGGCAGGTCTGACTTTTCTCTCTGCTCCGCCCTCCATT
AACGCTCAGTACCCTTTAGCAGCTGACGGCCCCACGTTCTACTCCATGCTTGGCTTCCCTTTCCAAGTACTCTTT
CATATATTTTACTTGCTAGTATCTCCATTCTCTCTAAAGTAGTGTTCTTTTTGCCCTTAAACTTAAATTTTAA
ATTAATTAACCTGAATTAATAATACATGCACCTAATGTAACATGCAACAGTACAAAAACATGTAGTGAAAAATA
TTTCTTCCAGAGCTGGGTGTGGTGGCTCATGCCTGTAATCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACG
AGGTCAAGAGAGCGAGACCATCCTGACCAACATGGTGAAACCCCGTCTCTGCTAAAAATACAAAAATTAGCTGGG
CGTGGTGGCACGCACCCCTAGTCCCAGCTACTGGGGAGGCTGAGACGGGAGAATCGGTGCAACCCGGGAGGCGGA
GGTTGCAGTGAGCCTAGATCGCGCCACTGTACTCCAGCCTGGCAACAGAGTGAGACTCCGTCTCAAAAAAAGAA
GGAAAAATGTTTCTTCCATCCCTATAATCCAGTCATCTGCTTCCCTGCTTCCCTTCCCTGGAGGAACTTCAGCTAC
TAATTTCTTATGTTTTTTAAGAGATATTCTGTTACTGTGTAAAGTATACATACATACAGACACATGCCCCCTTA
AATTTTTTAGATTTATTTATTTATTTAGAGACAGGGTCTCACTCTAGCCCAGGCTGGAGTGCTGTGGCGTAATCT
TGCTCACTGCAACCTCCGCCTCCCGGGCCCAAGTGATCCTCCCGTCTCAGCCTCCTGAGTAGCTGGGATTACAG
GCGCACACCACCAATGCCAGCTAGTTTTTGTGTTTTTCATAGAGACAGGGTCTCACCATGTCATTCAAGACCAG
CCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAAATATATAACAATTAGCCAGGCGTGGTGGCACACGCCT
GTAAACCCAACTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAGCCCGGAGAGGGAGGTTGCAGTGAGCCGAG
ATCATGCCACTGCACTCCAGCCTGGCTGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

16/2682
FIGURE 14

MEYLIQIGPDYVLVASDRVAASNIVQMKDDHDKMFKMSEKILLCVGEAGDTVQFAEYIQKNVQLYKMRNGYEL
SPTAAANFTRRNADCLRSRTPYHVNL LLAGYDEHEGPALYYMDYLAALAKAPFAAHGYGAFLTLSILDRIYTP
ISRERAVELLRKCLEELQKRFILNLPTFSVRIIDKNGIHDLDNISFPKQGS

17/2682
FIGURE 15

ACAGGCATTTTCCAAAGGCAAGCCTGGAGCGCACGGATCTGTATAACCGCGGAAGGCCCTGTTTCCGGTCCCTTG
CGCCTGCGCTCTTGCAGCCAAGAAGGCGGGAGGCTGGAGTAGAGGGAAGCCTGCAACCGGAAGTGAAGGCAGATT
TCCCTCCTTCGTGCTGTGTGCTGCCGCCATACGCGCTCTCCCTGTTTAGTTATGGCAGAGAACGATGTGGACAAT
GAGCTCTTGGACTATGAAGATGATGAGGTGGAGACAGCAGCTGGGGGAGATGGGGCTGAGGCCCTGCCAAGAAG
GATGTCAAGGGCTCCTATGTCTCCATCCACAGCTCTGGCTTTCGTGACTTCCTGCTCAAGCCAGAGTTGCTCCGG
GCCATTGTGCTGACTGTGGCTTTGAGCATCCGTCAGAAGTCCAGCATGAGTGCATCCCTCAGGCCATTCTGGGAATG
GATGTCCTGTGCCAGGCCAAGTCGGGCATGGGAAAGACAGCAGTGTTTGTCTTGGCCACACTGCAACAGCTGGAG
CCAGTTACTGGGCAGGTGTCTGTGCTGGTGATGTGTACACTCGGGAGTTGGCTTTTCAGATCAGCAAGGAATAT
GAGCGCTTCTCTAAATACATGCCAATGTCAAGGTTGCTGTTTTTTTTTGGTGGTCTGTCTATCAAGAAGGATGAA
GAGGTGCTGAAGAAGAACTGCCCCGATATCGTCTGTGGGACTCCAGGCCGTATCCTAGCCCTGGCTCGAAATAAG
AGCCTCAACCTCAAACACATTAAACACTTTATTTTGGATGAATGTGATAAGATGCTTGAACAGCTCGACATGCGT
CGGGATGTCCAGGAAATTTTTCGATGACCCCCACGAGAAGCAGGTCATGATGTTTCAAGTGTACCTTGAGCAAA
GAGATCCGTCCAGTCTGCCGCAAGTTCATGCAAGATCCAATGGAGATCTTCGTGGATGATGAGACGAAGTTGACG
CTGCATGGGTTGCAGCAGTACTACGTGAACTGAAGGACAACGAGAAGAACCAGGAAGCTCTTTGACCTTCTGGAT
GTCCTTGAGTTCAACCAGGTGGTGATCTTTGTGAAGTCTGTGCAGCGGTGCATTGCCTTGGCCCAGCTACTAGTG
GAGCAGAACTTCCCAGCCATTGCCATCCACCGTGGGATGCCCCAGGAGGAGAGGCTTTCTCGGTATCAGCAGTTT
AAAGATTTTCAACGACGAATTCTTGTGGCTACCAACCTATTTGGCCGAGGCATGGACATCGAGCGGGTGAACATT
GCTTTTAATTATGACATGCCTGAGGATTCTGACACCTACCTGCATCGGGTGGCCAGAGCAGGCCGGTTTGGCACC
AAGGGCTTGGCTATCACATTTGTGTCCGATGAGAATGATGCCAAGATCCTCAATGATGTGCAGGATCGCTTTGAG
GTCAATATTAGTGAGCTGCCTGATGAGATAGACATCTCCTCTACATTGAACAGACACGGTAGAAGACTCGCCCA
TTTTGGAATGTGACCGTCTGTCTTCAGGAGAGGACACCAGGGTGGGGGTGAAGGAGACACTACTGCCCCACCC
CTGACAGCCCCACCCCATGGCTTCCATCTTTTGCATCACCACCACTCCTGAACCCCCATTTCTGATTTGTCAGA
ATTTTTTTTTTAACAAACTAAAAATGAAACACATGTGTCTGTGGTATCTAAAAAAAAAAAAAAAAAAAAAAAAA

18/2682
FIGURE 16

MAENDVDNELLDYEDDEVETAAGGDGAEAPAKKDVKGSYVSIHSSGFRDFFLLKPELLRAIVDCGFEHPSEVQHEC
IPQAILGMDVLCQAKSGMGKTAVFVLATLQQLEPVTGQVSVLVMCHTRELAFQISKEYERFSKYMPNVKVAFFG
GLSIKKDEEVLKKNCPHIVVGTGPRILALARNKSLNLKHIKHFI LDEC DKMLEQLDMRRDVQE IFRMTPHEKQVM
MFSATLSKEIRPVCRKFMQDPMEIFVDDTKLTLHGLQQYYVKLDNEKNRKLFDLLDVLEFNQVVIFVKSQVRC
IALAQLLVEQNFPAAIAIHRGMPQEERLSRYQQFKDFQRRILVATNLFGRGMDIERVNI AFNYDMPEDSDTYLHRV
ARAGRFGTKGLAITFVSDENDAKILNDVQDRFEVNI SELPDEIDISSYIEQTR

19/2682
FIGURE 17

GCGGCGTTGTAGTTAAGCTCGTGTAACGGCGGCGGTGTCGGCAGCTGCTGTAGCGAAGAGAGTTTGGCGCGATGT
CTCACACCATTTTTGCTGGTACAGCCTACCAAGAGGCCAGAAGGCAGAACTTATGCTGACTACGAATCTGTGAATG
AATGCATGGAAGGTGTTTGTAAAATGTATGAAGAACATCTGAAAAGAATGAATCCCAACAGTCCCTCTATCACAT
ATGACATCAGTCAGTTGTTTGATTTCATCGATGATCTGGCAGACCTCAGCTGCCTGGTTTACCGAGCTGATACCC
AGACATAACCAGCCTTATAACAAAGACTGGATTAAAGAGAAGATCTACGTGCTCCTTCGTCGGCAGGCCCAACAGG
CTGGGAAATTAATTGTGTTGGGAAGCACTGGGGGGGTGGGGTGGGCTTGAACACAGGTGTGTACAGCGTGCTGTA
GTGGAAGTTTTGTATCATAGTAATCCTGTTTCCACTTTGTTATACTCTAGCCAAGATTGACTGTATTAGATGAAA
TGTGAGGATCTTGTTCAATCGGAAACCCCGTTACCTCCTCTTTTTCTTTCTCTTTCTTTTTTTTTTTTTTACTT
AAACATTTTTATGATGATTTAGATGGAAGTTGTTCTTCGTCACTTAATGTTGGTTCCAGTCCTTCAACTGTTTAT
ATCTACTTTATAACATTACATACTAACCCTTCTTCAAGATGGGGTGGGGGTGGAAATGCAGTTTAGCCATGTC
CTCAAGATAAAGTCTTGGTAAAAATAAATAAATGTCCTTTAGTTATAAAAAAAAAAAAAAAAAAAAAA

20/2682
FIGURE 18

MSHTILLVQPTKRPEGRITYADYESVNECMGVCKMYEEHLKRMNPNSPSITYDISQLFDFIDDLADLSCLVYRAD
TQTYQPYNKDWIKEKIYVLLRRQAQQAGK

21/2682
FIGURE 19

CGGTTGGTGCGGCTCCATTGTTCTGTGTTTTAAGGCGCCATGAGGGGTGACAGAGGCCGTGGTCTGTGGTGGGCGC
TTTGGTTCCAGAGGAGGCCAGGAGGGGTTTCAAGGCCCTTTGTACCACATATCCCATTGACTTCTATTGTGT
GAAATGGCCTTTCCCCGGGTCAAGCCAGCACCTGATGAACTTTCCTTCAGTGAGGCCTTGCTGAAGAGGAATCAG
GACCTGGCTCCCAATTCTGCTGAACAGGCATCTATCCTTTCTCTGGTGACAAAAATAACAATGTGATTGATAAT
CTGATTGTGGCTCCAGGGACATTTGAAGTGCAAATTGAAGAAGTTCGACAGGTGGGATCCTATAAAAAGGGGACA
ATGACTACAGGACACAATGTGGCTGACCTGGTGGTGATACTCAAGATTCTGCCAACGTTGGAAGCTGTTGCTGCC
CTGGGGAACAAAGTCGTGGAAAGCCTAAGAGCACAGGATCCTTCTGAAGTTTTAACCATGCTGACCAACGAACT
GGCTTTGAAATCAGTTCTTCTGATGCTACAGTGAAGATTCTCATTACAACAGTGCCACCCAATCTTCGAAAACTG
GATCCAGAACTCCATTGGATATCAAAGTATTGCAGAGTGCCTTAGCAGCCATCCGACATGCCCGCTGGTTCGAG
GAAAATGCTTCTCAGTCCACAGTTAAAGTTCTCATCAGACTACTGAAGGACTTGAGGATTCGTTTTCTGGCTTT
GAGCCCCCTCACACCCTGGATCCTTGACCTACTAGGCCATTATGCTGTGATGAACAACCCCCACCAGACAGCCTTG
GCCCTAAACGTTGCATACAGGCGCTGCTTGCAGATTCTGGCTGCAGGACTGTTCTGCCAGGTTTCAGTGGGTATC
ACTGACCCCTGTGAGAGTGGCAACTTTAGAGTACACACAGTCATGACCCTAGAACAGCAGGACATGGTCTGCTAT
ACAGCTCAGACTCTCGTCCGAATCCTCTCACATGGTGGCTTTAGGAAGATCCTTGGCCAGGAGGGTGATGCCAGC
TATCTTGCTTCTGAAATATCTACCTGGGATGGAGTGATAGTAACACCTTCAGAAAAGGCTTATGAGAAGCCACCA
GAGAAGAAGGAAGGAGAGGAAGAAGAGGAGAATACAGAAAGAACCACCTCAAGGAGAGGAAGAAGAAAGCATGGA
AACTCAGGAGTGACATTCCCTTCACTCCTTTTCTACCCAGGGAAAGACTGGAGCCTTAAGCTGCCTGCTACTGG
CTTTACATGGTGACAGACATTCCGTGGATAGGAAGATAGCAGGAGAAAGTAACTCCATAGAGTGCATTCCACTG
GTTGATATTGGCTTAGCTGCCAGTCTCCCATTTGTGACCTATGCCATCCATCTATAATGGAGGATACCAACATTT
CTTCCTAATATTCTATAATCTCCAACCTCTGAAAACCCCTCTCTCAACTAATACTTTGCTGTTGAAATGTTGTGA
AATGTTAAGTGCTCTGGAATTTTTTTTTTCTAAGAAAACTATTAAAGTACTT

22/2682
FIGURE 20

MRGDRGRGRGGRFGSRGGPGGGFRPFVPHIPDFYLCEMAFPRVKPAPDETSFSEALLKRNQDLAPNSAEQASIL
SLVTKINNVIDNLIVAPGTFEVQIEEVRQVGSYKKGTMGTGHNVADLVVILKILPTLEAVAALGNKVVESLRAQD
PSEVLTMLTNETGFEISSDATVKILITTVPPLNRKLDPELHLDIKVLQSALAAIRHARWFEENASQSTVKVLIR
LLKDLRIRFPGFEP LTPWILDLLGHYAVMNNPTRQPLALNVAYRRCLQILAAGLFLPGSVGITDPCESGNFRVHT
VMTLEQQDMVCYTAQTLVRILSHGGFRKILQGEGDASYLASEISTWDGVIVTPSEKAYEKPPEKKEGEEEEENTE
RTTSRRGRRKHGNSGVTFPSLLFLPKGKTGA

23/2682
FIGURE 21

CTCCGGCGCAGTGTGGGACTGTCTGGGTATCGGAAAGCAAGCCTACGTTGCTCACTATTACGTATAATCCTTTT
CTTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGGCAGAAATTGCC
CAACTCATGTCCCTCATCATCAATACCTTCTATTCCAACAAGGAGATTTTCTTCGGGAGTTGATCTCTAATGCT
TCTGATGCCCTTGGACAAGATTGCTATGAGAGCCTGACAGACCCTTCGAAGTTGGACAGTGGTAAAGAGCTGAAA
ATTGACATCATCCCCAACCTCAGGAACGTACCCTGACTTTGGTAGACACAGGCATTGGCATGACCAAAGCTGAT
CTCATAAATAATTTGGGAACCATTGCCAAGTCTGGTACTAAAGCATTTCATGGAGGCTCTTCAGGCTGGTGACAG
ATCTCCATGATTGGGCGAGTTTGGTGTGGCTTTTATCTGCCTACTTGGTGGCAGAGAAAGTGGTTGTGATCACA
AAGCACAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTTCTTCACTGTGCGTGCTGACCATGGT
GAGCCCATTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTACCTAGAAGAGAGGCGG
GTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTTCATAGGCTATCCCATCACCTTTTATTGGAGAAGGAACGAGAG
AAGGAAATTAGTGATGAGGCAGAGGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAAAGATGATGAAGAAAAA
CCCAAGATCGAAGATGTGGTTTCAGATGAGGAGGATGACAGCGGTAAGGATAAGAAGAAGAAAACTAAGAAGATC
AAAGAGAAATACATTGATCAGGAAGAACTAAACAAGACCAAGCCTATTGGACCAGAAACCCTGATGACATCACC
CAAGAGGAGTAGTGGAGAATTCTACAAGAGCCTCACTAATGACTGGGAAGACCACTTGGCAGTCAAGCACTTTTCT
GTAGAAGGTCAGTTGGAATTCAGGGCATTGCTATTTTCTCTCGTCGGGCTCCCTTTGACCTTTTGTAGAACAAG
AAGAAAAAGAACAACATCAAACTCTATGTCCGCCGTGTGTTTCATCATGGACAGCTGTGATGAGTTGATACCAGAG
TATCTCAATTTTATCCGTGGTGTGGTTGACTCTGAGGATCTGCCCCGTAACATCTCCCGAGAAATGCTCCAGCAG
AGCAAAATCTTGAAAGTCATTGCAAAAACATTGTTAAGAAGTGCCTTGAGCTCTTCTCTGAGCTGGCAGAAGAC
AAGGAGAATTACAAGAAATCTATGAGGCATTCTCTAAAAATCTCAAGCTTGAATCCACGAAGACTCCACTAAC
CGCCGCCGCCCTGTCTGAGCTGCTGCGCTATCATACCTCCCAGTCTGGAGATGAGATGACATCTCTGTGAGAGTAT
GTTTCTCGCATGAAGGAGACACAGAAGTCCATCTATTACATCACTGGTGAGAGCAAAGAGCAGGTGGCCAACTCA
GCTTTTGTGGAGCGAGTGCAGAAACGGGGCTTCGAGGTGGTATATATGACCGAGCCCATTGACGAGTACTGTGTG
CAGCAGCTCAAGGAATTTGATGGGAAGAGCCTGGTCTCAGTTACCAAGGAGGGTCTGGAGCTGCCTGAGGATGAG
GAGGAGAAGAAGAAGATGGAAGAGAGCAAGGCAAAGTTTGAGAACCTCTGCAAGCTCATGAAAGAAATCTTAGAT
AAGAAGGTTGAGAAGGTGACAATCTCCAATAGACTTGTTGTCTTACCTTGCTGCATTGTGACCAGCACCTACGGC
TGGACAGCCAATATGGAGCGGATCATGAAAGCCCAGGCACTTCGGGACAACCTCCACCATGGGCTATATGATGGCC
AAAAAGCACCTGGAGATCAACCCTGACCACCCCATTTGTGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAAT
GATAAGGCAGTTAAGGACCTGGTGGTGTGCTGTTTGAACCGCCCTGCTATCTTCTGGCTTTTCCCTTGAGGAT
CCCCAGACCCACTCCAACCGCATCTATCGCATGATCAAGCTAGGTCTAGGTATTGATGAAGATGAAGTGGCAGCA
GAGGAACCCAATGCTGCAGTTCCTGATGAGATCCCCCTCTCGAGGGCGATGAGGATGCGTCTCGCATGGAAGAA
GTGGATTAGGTTAGGAGTTCATAGTTGGAAAACCTGTGCCCTTGATAGTGTCCCCATGGGCTCCCACTGCAGCC
TCGAGTGGCCCTGTCCACCTGGCTCCCCCTGCTGGTGTCTAGTGTTTTTTCCCTCTCTGTCTTGTGTGAA
GGCAGTAACTAAGGTGTCAAGCCCCATTCCCTCTTACTCTTGACAGCAGGATTGGATGTTGTGTATTGTGGT
TTATTTTATTTTCTTCATTTTGTCTGAAATTAAGTATGCAAAATAAGAATATGCCGTTTTAAAAA
AAAAA

24/2682
FIGURE 22

MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLD SGKELKIDI
IPNPQERTLTTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHN
DDEQYAWESSAGGSFTVRADHGEP IGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEI
SDDEAEEEEKGEKEEEDKDDEEKPKIEDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKT KPIWTRNPDDITQEE
YGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRV FIMDSCELIPEYLN
FIRGVVDEEDLPLNISREMLQQSKILKVIRKNIVKKCLELFS ELAEDKENYKKFYEA FSKNLKLG IHEDSTNRRR
LSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANS AFVERVRKRGFEVVYMT EPIDEYCVQQL
KEFDGKSLVSVTKEGLELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTA
NMERIMKAQALRDNSTMGYMMAKKHLEINPDHP IVETLRQKAEADKNDKAVKDLVLLFETALLSSGFSLEDPQT
HSNRIYRMIKLG LGIDEDEVAAEEPNA AVPDEIPPLEGDE DASRMEEVD

25/2682
FIGURE 23

GCAAAACCAACGCCTGGCTCGGAGCAGCAGCCTCTGAGGTGTCCCTGGCCAGTGTCTTCCACCTGTCCACAAGC
ATGGGGAACATCTTCGCCAACCTCTTCAAGGGCCTTTTGGCAAAAAAGAAATGCGCATCTCATGGTGGGCCTG
GATGCTGCAGGGAAGACCACGATCCTCTACAAGCTTAAGCTGGGTGAGATCGTGACCACCATTCCCACCATAGGC
TTCAACGTGGAAACCGTGGAGTACAAGAATCAGCTTCACTGTGTGGGACGTGGGTGGCCAGGACAAGATCCGG
CCCCTGTGGCGCCACTACTTCCAGAACACACAAGGCCTGATCTTCGTGGTGGACAGCAATGACAGAGAGCGTGTG
AACGAGGCCCCGTGAGGAGCTCATGAGGATGCTGGCCGAGGACGAGCTCCGGGATGCTGTCTCCTGGTGTTCGCC
AACAAAGCAGGACCTCCCCAACGCCATGAATGCGGCCGAGATCACAGACAAGCTGGGGCTGCACTCACTACGCCAC
AGGAAGTGGTACATTCAGGCCACCTGCGCCACCAGCGCGCAGGGCTCTATGAAGGACTGGACTGGCTGTCCAAT
CAGCTCCGGAACCAGAAGTGAACGCGACCCCCCTCCCTCTCACTCCTCTTGCCCTCTGCTTTACTCTCATGTGGC
AAACGTGCGGCTCGTGGTGTGAGTGCCAGAAGCTGCGCTCCGTGGTTTGGTCAACGTGTGCATCGCACCGTGTGT
AAATGTGGCAGACGACGCTGCGGCCAGGCTTTTTTATTGAATGTAATAGTTTTTGTTCGAATGAGGCAGTTTC
TGGTACTCCTATGCAATATTACTCAGCTTTTTTTATTGTAAAAAGAAAAATCAACTCACTGTTTCACTGTGAGAG
GGGATGTAGGCCCATGGGCACCTGGCCTCCAGGAGTGCCTGTGTTGGGAGAGCCGGCCACGCCCTTGGCTTAGAG
CTGTGTTGAAATCCATTTTGGTGGTTGGTTTTTAACCCAACTCAGTGCATTTTTTAAATAGTTAAGAATCCAAG
TCGAGAACACTTGAACACACAGAAGGGAGACCCCGCCTAGCATAGATTTGCAGTTACGGCCTGGATGCCAGTCGC
CAGCCCAGCTGTTCCCTCGGGAACATGAGGTGGTGGTGGCGCAGCAGACTGCGATCAATTCTGCATGGTCACAG
TAGAGATCCCCGCAACTCGCTTGTCTTGGGTACCCCTGCATTCCATAGCCATGTGCTTGTCCCTGTGCTCCCAC
GGTCCCAGGGGCCAGGCTGGGAGCCACAGCCACCCCACTATGCCGAGGCCGCCCTACCCACCTTCAGGCAGC
CTATGGGACGCAGGCCCATCTGTCCCTCGGTCCGCGTGTGGCCAGAGTGGTCCGTCGTCCCCAACACTCGTGCT
CGCTCAGACACTTTGGCAGGATGTCTGGGGCCTCACCAGCAGGAGCGCGTGCAAGCCGGGCAGGCGGTCCACCTA
GACCCACAGCCCCTCGGGAGCACCCACCTCTGTGTGTGATGTAGCTTTCTCTCCCTCAGCCTGCAAGGGTCCGA
TTTGCCATCGAAAAAGACAACCTCTACTTTTTTCTTTTGTATTTTGATAAACAAGCTGGAGCTGTAAATT
TATCTTGGGGAAACCTCAGAACTGGTCTATTTGGTGTGCTAGGAACCTCTTACTGCTTTCAATACACGATTAGTA
ATCAACTGTTTTGTATACTTGTTCAGTTTTTCATTTTCGACAAACAAGCACTGTAATTATAGCTATTAGAATAAA
ATCTCTTAACCTATT

26/2682
FIGURE 24

MGNIFANLFKGLFGKKEMRILMVGLDAAGKTTILYKLLGEIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIR
PLWRHYFQNTQGLIFVVDSDNRERVNEAREELMRMLAEDEL RDAVLLVFANKQDLPNAMNAEITDKLGLHSLRH
RNWYIQATCATSGDGLYEGLDWLSNQLRNQK

27/2682
FIGURE 25

CGCGCCGGGAACAGCCAGTCGGTGCCTAACGCGAGTGTATCTCGAGAGAGAAGCGATCAACAGCTGCCGGTCTGC
GCCTGCGCGGCGACGGGGCGTGGCCGCGGCGAGTGGGGCCAAGGAGGCAGCCGGGAGCGGGGCGCAGGTGTTA
CTGGTTGCGTTCGGGTACAGTGGGCGCGCAGCAGACCGCGGTGCAGCCCGTTTCGCTCACACAAAGCCCAGACGCGG
AGAAAATGGCGGCGAGGGGTGGAAGCGGCGGCGGAGGTGGCGGCGACGGAGATCAAAATGGAGGAAGAGAGCGGCG
CGCCCGCGTGGCGAGCGGCAACGGGGCTCCGGGCCCTAAGGGTGAAGGAGAACGACCTGCTCAGAATGAGAAGA
GGAAGGAGAAAAACATAAAAAGAGGAGGCAATCGCTTTGAGCCATATGCCAATCCAATAAAAGATACAGAGCCT
TCATTACAAACATACCTTTTGTATGTGAAATGGCAGTCACTTAAAGACCTGGTTAAAGAAAAAGTTGGTGAGGTAA
CATACGTGGAGCTCTTAATGGACGCTGAAGGAAAGTCAAGGGGATGTGCTGTTGTTGAATTCAAGATGGAAGAGA
GCATGAAAAAAGTCGCGGAAGTCCTAAACAAGCATAGTCTGAGCGGAAGACCACTGAAAGTCAAAGAAGATCCTG
ATGGTGAACATGCCAGGAGAGCAATGCAAAAGGTGATGGCTACGACTGGTGGGATGGGTATGGGACCAGGTGGCC
CAGGAATGATTACTATCCCACCCAGTATCCTAAATAATCCCAACATCCCAATGAGATTATCCATGCATTACAGG
CTGGAAGACTTGGGAAGCACAGTATTTGTAGCAAACTCTGGATTATAAAGTTGGCTGGAAGAACTGAAGGAAGTAT
TTAGTATGGCTGGTGGTGGTCCGAGCAGACATTCTTGAAGATAAAGATGGAAGAAAGTCGTGGAATAGGCACTG
TTACTTTTGAACAGTCCATTGAAGCTGTGCAAGCTATATCTATGTTCAATGGCCAGCTGCTATTTGATAGACCAA
TGACGCTCAAGATGGATGAGAGGGCCTTACCAAAAGGAGATTTCTTCCCTCTGAGCGTCCACAACAACTTCCCC
ATGGCCTTGGTGGTATTGGCATGGGGTTAGGACCAGGAGGGCAACCCATTGATGCCAATCACCTGAATAAAGGCA
TCGGAATGGGAAACATAGGTCCCGCAGGAATGGGAATGGAAGGCATAGGATTGGGAATAAATAAAATGGGAGGAA
TGGAGGGGCCCTTTGGTGGTGGTATGGAACATGGGTGCAATTGGATCTGGGATGAACATGGGCAGGATAAATG
AAATCCTAAGTAATGCACTGAAGAGAGGAGAGATCATTGCAAGCAGGGAGGAGGTGGAGGTGGAGGAAGCGTCC
CTGGGATCGAGAGGATGGTCCCTGGCATTGACCGCTCGGGGGTGCCGGCATGGAGCGCATGGGCGCGGGCCTGG
GCCACGGCATGGATCGCGTGGGCTCCGAGATCGAGCGCATGGGCTGGTTCATGGACCGCATGGGCTCCGTGGAGC
GCATGGGCTCCGGCATTGAGCGCATGGGCCCGCTGGGCTCGACCACATGGCCTCCAGCATTGAGCGCATGGGCC
AGACCATGGAGCGCATTGGCTCTGGCGTGGAGCGCATGGGTGCCGGCATGGGCTTCGGCCTTGAGCGCATGGCCG
CTCCCATCGACCGTGTGGGCCAGACCATTGAGCGCATGGGCTCTGGCGTGGAGCGCATGGGCCCTGCCATCGAGC
GCATGGGCTGAGCATGGAGCGCATGGTGGCCGAGGTATGGGAGCTGGCCTGGAGCGCATGGGCCCGGTGATGG
ATCGCATGGCCACCGGCTGGAGCGCATGGGCGCCAACAATCTGGAGCGGATGGGCTGGAGCGCATGGGCGCCA
ACAGCCTCGAGCGCATGGGCTGGAGCGCATGGGTGCCAACAGCCTCGAGCGCATGGGCCCGCCATGGGCCCGG
CCCTGGGCGCTGGCATTGAGCGCATGGGCTGGCCATGGGTGGCGGTGGCGGTGCCAGCTTTGACCGTGCCATCG
AGATGGAGCGTGGCAACTTCGGAGGAAGCTTCGCAGGTTCTTTGGTGGAGCTGGAGGCCATGCTCCTGGGGTGG
CCAGGAAGGCCTGCCAGATATTTGTGAGAAATCTGCCATTTCGATTTCACATGGAAGATGCTAAAGGACAAATTCA
ACGAGTGGGCCACGTGCTGTACGCCGACATCAAGATGGAGAATGGGAAGTCCAAGGGGTGTGGTGTGGTTAAGT
TCGAGTGGCCAGAGGTGGCCGAGAGAGCCTGCCGGATGATGAATGGCATGAAGCTGAGTGGCCGAGAGATTGACG
TTGCAATTGATAGAAACGCTTAAGCAGTTGCCTTTTTTAAACATCGATACGAGACCTCTGAATTTGTATTTTTTC
TTGTTAACCATTTTAATTTGTTGGCTGGATGTATAAAGATGTTTAAAAAATTTCAGTTGCTTTTTTGGGGTAATTTG
AATTACTTTTTTAATGACTGGGGTTCCATTTGACTGTTGCAATTGAGATTGCAATGTGCGCAATTTTTTTGTAG
TTGTGGCATCTTGTGACATCGAATATGACTTTGATAATAAATACCGGTTCTGAAAAAAAAAAAAAAAAAAAAA
AAA

28/2682
FIGURE 26

MAAGVEAAAEVAATEIKMEEESGAPGVPSGNGAPGPKGEGERPAQNEKRKEKNIKRGGNRFEPYANPTKRYRAFI
TNIPFDVKWQSLKDLVKEKVGEVTYVELLMDAEGKSRGCAVVEFKMEESMKKAAEVLNKHSLSGRPLKVKEDPDG
EHARRAMQKVMATTGGMGMPGGPGMITIPPSILNNPNIPNEIIHALQAGRLGSTVFVANLDYKVGWKKLKEVFS
MAGVVVRADILEDKDGKSRGIGTVTFEQSIEAVQAISMFNQQLLFDRPMHVKMDERALPKGDFPPPERPQQLPHG
LGGIGMGLGPGGQPIDANHLNKGIGMGNIGPAGMGMEGIGFGINKMGMEGPFGGGMENMGRFGSGMNMGRINEI
LSNALKRGEIIAKQGGGGGGGSPGIERMGPIDRLGGAGMERMGAGLGHGMDRVGSEIERMGLVMDRMGSVERM
GSGIERMGPLGLDHMASSIERMGQTMERIGSGVERMGAGMGFGLERMAAPIDRVGQTIERMGSVERMGPAIERM
GLSMERMVPAGMGAGLERMGPMVMDRMATGLERMGANNLERMGGLERMGANSLERMGANSLERMGAMPAL
GAGIERMGLAMGGGGGASFDRAIEMERGNFGGSFAGSFGGAGGHAPGVARKACQIFVRNLPDFTWKMLKDKFNE
CGHVLYADIKMENGSKGCGVVKFESPEVAERACRMNGMKLSGREIDVRIDRNA

29/2682
FIGURE 27

CGGCGCCATTAAAGCGAGGAGGAGGCGAGAGCGGCCGCCCTGGTGCTTATTCTTTTTTAGTGACGGGAGAGA
GCGGGAGTGTGCCCGCGCGAGAGTGGGAGGCGAAGGGGCGAGGCCAGGGAGAGGCGCAGGAGCCTTTGCAGCCA
CGCGCGCGCCTTCCCTGTCTTGTGTGCTTCGCGAGGTAGAGCGGGCGCGCGGAGAGCGCGGGGATTACTTTGTGTC
TAGTTTCGGTTCGCGGCAGGCGGGTGTAGTCTCGGCGGCAGCGCGGAGACACTAGCACTATGTCGGAGGAGCAG
TTCGGCGGGGACGGGGCGGCGGCAACGGCGGCGGTAGGCGGCTCGGCGGGCGAGCAGGAGGGAGCCATG
GTGGCGGCGACACAGGGGCGAGCGGCGGCGGGAAGCGGAGCCGGGACCGGGGCGGAACCGCGTCTGGAGGC
ACCGAAGGGGGCAGCGCCGAGTCGGAGGGGGCGAAGATTGACGCCAGTAAGAACGAGGAGGATGAAGGCCATTCA
AACTCCTCCCCACGACACTCTGAAGCAGCGACGGCAGCGGAAGAATGGAATAATGTTTATAGGAGGCCTTAGC
TGGGACACTACAAAGAAAGATCTGAAGGACTACTTTTCCAAATTTGGTGAAGTTGTAGACTGCACTCTGAAGTTA
GATCCTATCACAGGGCGATCAAGGGGTTTTGGCTTTGTGCTATTTAAAGAATCGGAGAGTGTAGATAAGGTCATG
GATCAAAAAGAACATAAATTGAATGGGAAGGTGATTGATCCTAAAAGGGCCAAAGCCATGAAAACAAAAGAGCCG
GTTAAAAAATTTTTGTTGGTGGCCTTTCTCAGATACACTGAAGAGAAAAAAGGGAGTACTTTGGTGGTTTT
GGTGAGGTGGAATCCATAGAGCTCCCCATGGACAACAAGACCAATAAGAGGCGTGGGTTCTGCTTTATTACCTTT
AAGGAAGAAGAACCAGTGAAGAAGATAATGGAAGAAGAAATACCACAATGTTGGTCTTAGTAAATGTGAAATAAAA
GTAGCCATGTGCAAGGAACAATATCAGCAACAGCAACAGTGGGGATCTAGAGGAGGATTTGCAGGAAGAGCTCGT
GGAAGAGGTGGTGGCCCCAGTCAAAACTGGAACCGAGGATATAGTAATATTGGAATCAAGGCTATGGCAACTAT
GGATATAACAGCCAAGGTTACGGTGGTTATGGAGGATATGACTACACTGGTTACAACAACACTATGGATATGGT
GATTATAGCAACCAGCAGAGTGGTTATGGGAAGGTATCCAGGCGAGGTGGTCAATAAATAGCTACAAACCATAC
TAAATTATTCCATTTGCAACTTATCCCCAACAGGTGGTGAAGCAGTATTTTCCAATTTGAAGATTCATTTGAAGG
TGGCTCCTGCCACCTGCTAATAGCAGTTCAAACATAAATTTTTGTATCAAGTCCCTGAATGGAAGTATGACGTTG
GGTCCCTCTGAAGTTTAAATCTGAGTTCTCATTAAGAAATTTGCTTTCAATTGTTTTATTCTTAATTGCTATG
CTTCAGAATCAATTTGTGTGTTATGCCCTTTCCCCAGTATTGTAGAGCAAGTCTTGTTGTTAAAGCCCAGTG
ACAGTGTGATGATGTAGTAGTCTTACTGGTTTTTAAATAAATCCTTTTGTATAAAAAATGATTGGCTCTTTTA
TCATCAGAATAGGAAAAATTGTCATGGATTCAAGTTATTAAAGCATAAGTTTGGGAAGACAGGCTTGCCGAAATT
GAGGACATGATTAAAAATTGCAGTGAAGTTTGAAGTGTTTTAGCAAAATCTAATTTTGCATAATGTGTCTCTC
CTGTCCAAATTGGGAATGACTTAATGTCAATTTGTTTGGTTGTTTTAATAATACTTCCTTATGTAGCCATTA
AGATTTATATGAATATTTTCCCAAATGCCAGTTTTTGCTTAATATGTATTGTGCTTTTGAACAAATCTGGAT
AAATGTGCAAAAGTACCCCTTTGCACAGATAGTTAATGTTTTATGCTTCCATTAAATAAAAAGGACTTAAATCT
GTTAATTATAATAGAAATGCGGCTAGTTCAGAGAGATTTTATAGCTGTGGTGGACTTCATAGATGAATTCAAGT
GTTGAGGGAGGATTAAAGAAAT

30/2682
FIGURE 28

MSEEQFGDGAAAAATAAVGGSAGEQEGAMVAATQGAAAAAGSGAGTGGGTASGGTEGGSASEGAKIDASKNEE
DEGHSNSSPRHSEAATAQREEWKMF IGGLSWDTTKDLKDYFSKFGEVVDCTLKLDPI TGRSRGFGFVLFKESES
VDKVMQKEHKLNGKVIDPKRAKAMKTKEPVKKIFVGGLSPDTPEEKIREYFGGFGEVESIELPMDNKTNKRRGF
CFITFKEEEFVKKIMEKKYHNVGLSKCEIKVAMSKEQYQQQQQWGSRRGFAGRARGRGGGPSQÑWNQGYSNYWNQ
GYGNYGYNSQGYGGYGGYDYTGYNYYGYGDYSNQQSGYGKVSRRGGHQNSYKPY

31/2682
FIGURE 29

GTACTATCCTCCTTACTTTTGGGTGCGGCCCTCCGGGAAGATGGCGGCCGTGCAGGCGGCCGAGGTGAAAGTGGA
TGGCAGCGAGCCGAAACTGAGCAAGAATGAGCTGAAGAGACGCCCTGAAAGCTGAGAAGAAAGTAGCAGAGAAGGA
GGCCAAACAGAAAGAGCTCAGTGAGAAACAGCTAAGCCAAGCCACTGCTGCTGCCACCAACCACACCACTGATAA
TGGTGTGGGTCTCTGAGGAAGAGAGCGTGGACCCAAATCAATACTACAAAATCCGCAGTCAAGCAATTCATCAGCT
GAAGGTCAATGGGAAGACCCATACCCACACAAGTTCCATGTAGACATCTCACTCACTGACTTCATCCAAAAATA
TAGTCACCTGCAGCCTGGGGATCACCTGACTGACATCACCTTAAAGGTGGCAGGTAGGATCCATGCCAAAAGAGC
TTCTGGGGGAAAGCTCATCTTCTATGATCTTTCGAGGAGAGGGGGTGAAGTTGCAAGTCATGGCCAATTCCAGAAA
TTATAAATCAGAAGAAGAATTTATTCATATTAATAACAAACTGCGTCGGGGAGACATAATTGGAGTTCAGGGGAA
TCCTGGTAAAACCAAGAAGGGTGAGCTGAGCATCATTCGGTATGAGATCACACTGCTGTCTCCCTGTTTGCATAT
GTTACCTCATCTTCACTTTGGGCTCAAAGACAAGGAAACAAGGTATCGCCAGAGATACTTGGACTTGATCCTGAA
TGACTTTGTGAGGCAGAAATTTATCATCCGCTCTAAGATCATCACATATATAAGAAGTTTCTTAGATGAGCTGGG
ATTCTAGAGATTGAAACTCCCATGATGAACATCATCCAGGGGGAGCCGTGGCCAAGCCTTTCATCACTTATCA
CAACGAGCTGGACATGAACCTTATATATGAGAATTGCTCCAGAACTCTATCATAAGATGCTTGTGGTTGGTGGCAT
CGACCGGGTTTATGAAATTGGACGCCAGTTCCGGAATGAGGGGATTGATTGACGCACAATCCTGAGTTCACCAC
CTGTGAGTTCTACATGGCCTATGCAGACTATCACGATCTCATGGAAATCACGGAGAAGATGGTTTCAGGGATGGT
GAAGCATATTACAGGCAGTTACAAGGTCACCTACCACCCAGATGGCCCAGAGGGCCAAGCCTACGATGTTGACTT
CACCACCCCTTCCGGCGAATCAACATGGTAGAAGAGCTTGAGAAAGCCCTGGGGATGAAGCTGCCAGAAACGAA
CCTCTTTGAAACTGAAGAAACTCGCAAAATCTTGTATGATATCTGTGTGGCAAAAAGCTGTTGAATGCCCTCCACC
TCGGACCACAGCCAGGCTCCTTGACAAGCTTGTGGGGAGTTTCTGGAAGTGACTTGATCAATCCTACATTAT
CTGTGATCACCCACAGATAATGAGCCCTTTGGCTAAATGGCACCCTCTAAAGAGGGTCTGACTGAGCGCTTTGA
GCTGTTTGTGATGAAGAAAGAGATATGCAATGCGTATACTGAGCTGAATGATCCCATGCGGCAGCGGCAGCTTTT
TGAAGAACAGGCCAAGGCCAAGGCTGCAGGTGATGATGAGGCCATGTTTATAGATGAAAATCTGTACTGCCCT
GGAATATGGGCTGCCCCCACAGCTGGCTGGGGCATGGGCATTGATCGAGTCGCCATGTTTCTCACGGACTCCAA
CAACATCAAGGAAGTACTTCTGTTTCTGCCATGAAACCCGAAGACAAGAAGGAGAATGTAGCAACCACTGATAC
ACTGGAAGCACAACAGTTGGCACTTCTGTCTAGAAAATAATAATTGCAAGTTGTATAACTCAGGCGTCTTTGCA
TTTCTGCGAAAGATCAAGGTCTGCAAGGAATTCTTGTGTGCTGCTTTCCATTTGACACCGCAGTTCTGTTCAGC
CATCAGAAGAGAGACAAGGAATTAAAAATTTCTTTTAAATCCTGTTA

32/2682
FIGURE 30

MAAVQAAEVKVDGSEPKLSKNELKRRLKAEKKVAEKEAKQKELSEKQLSQATAAATNHTTNDNGVGPEEESVDPNQ
YYKIRSQAIHQKLVNGEDPYPHKFHVDISLTDFIQKYSHLQPGDHLTDITLKVAGRIHAKRASGGKLIFYDLRGE
GVKLQVMANSRNYKSEEEFIHINNKLRRGDIIGVQGNPGTKKKGELSIIPYEITLLSPCLHMLPHLHFGLDKET
RVRQRYLDLILNDFVRQKFIIRSKIITYIRSFLDELGFLEIETPMNIIIPGGAVAKPFITYHNELODMNLYMRIAP
ELYHKMLVVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDLMEITEKMSVSGMVKHITGSYKVITYHP
DGPEGQAYDVDFTPPFRINMVEELEKALGMKLPETNLFETEETRILDDICVAKAVECPPPRTTARLLDKLVGE
FLEVTCINPTFICDHPQIMSPKAKWHRSEGLTERFELFVMKKEICNAYTELNDPMRQQLFEEQAKAKAAGDDE
AMFIDENFCTALEYGLPPTAGWGMGIDRVAMFLTDSNNIKEVLLFPAMKPEDKKENVATTDTLESTTVGTSV

33/2682
FIGURE 31

GGGGAGAGAAGGCCCGAGGGGCTCTGCGTTCTGTAGTGGCGCTGCTTGGGCCCGTGGCGGATTGTAAGCTGCTG
GTTTTGCGGCTGGGAAGAGCGGCGAGAGGGTTTCGGCATTTCGTCGGGATCCCCGCAAGGATGAGTGTGCTGCCAG
AGAGTCTCACCCGCATGGGGTGAAGCGTTTCAGCCTCCCCAGACGACGATCTGGGATCTAGCAATTGGGAGGCAGC
AGACTTGGGTAATGAAGAGAGAAAACAAAAGTTCTTGAGACTTATGGGTGCAGGAAAGAAAGAACATACTGGTCTG
TCTTGTTATAGGAGATCACAAATCAACATCTCACTTCCGAACCGGGGAAGAAGACAAGAAAATTAATGAAGAAGT
GGAGTCTCAATATCAGCAAAGTATGGACAGTAAATTATCAGGAAGATATCGGCGACATTGTGGACTTGGCTTCAG
TGAGGTAGAAGACCATGATGGAGAAGGTGATGTGGCTGGAGATGATGATGATGACGATGATGATTCACCTGATCC
TGAAAGTCCAGATGATTCTGAAAGCGATTTCAGAGTCAGAGAAAGAAGAATCTGCTGAAGAAGTCCAAGCTGCTGA
GCACCTGATGAAGTGGAGGATCCCCAAAAACAAAAAGATGCAAAAGCAATTATAAAATGATGTTTGTAAATC
CAGTGGTTCATAACTCCCAAACGCTTAGTCTTTGTATTAAAAAGTAAGCCTTATTGTTACAATGCACAGTGGAGGA
CTGCTTATAGAGCACAGACCTTTGTATTATAATTTTTAAAAAGGCCCTTTTAAATAATTACAAAGAGTGTGTGCT
TTCAAATGCCATGGGTACACTTTTATGGGCATGACTATAACCATTTTGTAAAGAGTAAGAGTTGTATAAAATA
AGAAATAAATACAGTACTCAACTTCCTTTTCATATTAGCATCATCAACCCTCTAATTCACCTTATGGGGGAAATGC
TTCTTTTGTGTGTAGCTATTTTATCATTTCCTTCATATTTTCTCTTATAAAATGTATTTGATACTGTGA
TATGTTACGAAAAGTATTCTTTAATTATTCTTTGTTATAGTAGAGCTGTTTCATTATGGATATTTCTGCTGCCAG
TCACAACTCTAAATTAATTTTGGCAAAAGATTGGGTACTTGTGCTGTTACTGAGTTAGCTCTACTCTTTTGGGA
CCAAAGCAACATGAGAGCAAGTACTTTTCACACTTGTTAAGATGGAGTTATAACTGTCATACATTTGGAATATTA
TGATCCCAAGTAGTCTTTTATAATTTGGATTGTATCGTATGTTAGATTTTGTATAAAATTTGGCCAATTTTAC
AGAAGAAATCTCTGATCATTTAGTTCTATCTATTTAGAAATATGTAAAGTGGATTTTTTTTTAAGTAATATGT
GACCAAAGTTAATTTTGTCCCAAAGGTCTAAATAAAGAGCAGTTTCCACAAAAAAAAAAAAAAAAAAAAAA
AAAA

34/2682
FIGURE 32

MSAARESHPHGVKRSASPDDDLGSSNWEAADLGNEERKQKFLRLMGAGKKEHTGRLVIGDHKSTSHFRTGEEDKK
INEELESQYQQSMDSKLSGRYRRHCGLGFSEVEDHDGEGDVAGDDDDDDDDSPDPESPDDSESDSESEKEESAEE
LQAAEHPDEVEDPKNKKDAKSNYKMMFVKSSGS

35/2682
FIGURE 33

GCGGTCAGCTATTGACACTTCCTGGTGGGATCCGAGTGAGGCGACGGGGTAGGGGTTGGCGCTCAGGCGGCGACC
ATGGCGTATCACGGCCTCACTGTGCTCTCATTGTGATGAGCGTGTTCGGGGCTTCGTCGGCTTCTTGGTGCCT
TGGTTCATCCCTAAGGGTCCTAACCGGGGAGTTATCATTACCATGTTGGTGACCTGTTTCAGTTTGCTGCTATCTC
TTTTGGCTGATTGCAATTCTGGCCCACTCAACCCTCTCTTTGGACCGCAATTGAAAAATGAAACCATCTGGTAT
CTGAAGTATCATTGGCCTTTGAGGAAAGAAGACATGCTCTACAGTGCTCAGTCTTTGAGGTCACGAGAAGAGAATGC
CTTCTAGATGCAAAATCACCTCCAAACCAGACCACCTTTCTTGACTTGCTGTTTTGGCCATTAGCTGCCTTAAA
CGTTAACAGCACATTTGAATGCCTTATTCTACAATGCAGCGTGTTTTCTTTGCCTTTTTTGCACCTTTGGTGAAT
TACGTGCCTCCATAACCTGAAGTGTGCCGACTCCACAAAACGATTATGTACTCTTCTGAGATAGAAGATGCTGTT
CTTCTGAGAGATACGTTACTCTCTCCTTGAATCTGTGGATTTGAAGATGGCTCCTGCCTTCTCACGTGGGAATC
AGTGAAGTGTITAGAACTGCTGCAAGACAAACAAGACTCCAGTGGGGTGGTCAGTAGGAGAGCACGTTTCAGAGG
GAAGAGCCATCTCAACAGAATCGCACCAAATACTTTCAGGATGAATTTCTTCTTTCTGCCATCTTTTGGAAT
AAATATTTTCTCCTTTCTATGGA

36/2682
FIGURE 34

MAYHGLTVPLIVMSVFWGFGVGLVPWFIPKGPNRGVIIITMLVTCSVCCYLFWLIAILAQLNPLFGPQLKNETIWY
LKYHWP

37/2682
FIGURE 35

AGGAGCCAGGAAGAGAGCTGTGACCAGCAGCGTCCCTTATTGCTTGGCCTTGGTTCTGTTTGCAGTGGCTACA
GCAGGGCACTGGCCCTACTGTACCGCCACCTACACAAAGACCCTATCTCTGAGCGCTGCAGCCTACTGTTTCAG
CCCCAGGTTTGTAGGATGGATGCCCTGGACGCTTCGAAGCTACTGGATGAGGAGCTGTATTCAAGACAGCTGTATG
TGCTGGGCTCACCTGCCATGCAGAGGATTACAGGGAGCCAGGGTCTGGTGTACAGGCCTGCAGGGCCTGGGGGCCG
AGGTGGCCAAGAAGCTTGGTTCTGATGGGTGTGGGCAGCCTCACTCTGCATGATCCCCACCCACCTGCTGGTCCG
ACCTGGCTGCCCAGTTTCTCTCTCAGAGCAGGACTTGGAAAGGAGCAGAGCCGAGGCCTCTCAAGAGCTCTTGG
CTCAGCTCAACAGAGCTGTCCAGGTCGTGTCACACGGGTGACATCACTGAGGACCTGCTGTTGGACTTCCAGG
TGGTGGTGCTGACTGCTGCAAAGCTGGAGGAGCAGCTGAAGGTGGGCACCTTGTGTATAAGCATGGAGTTTGCT
TTCTGGCGGCTGACACCGGGCCTCGTGGGGCAGTTGTTCTGTGACTTTGGTGAGGACTTCACTGTGCAGGACC
CCACAGAGGCAGAACCCTGACAGCTGCCATCCAGCACATCTCCAGGGCTCCCCCTGGCATTCTCACTCTGAGGA
AAGGGCCAATACCCACTACTTCCGTGATGGAGACTTGGTGACTTTCTCGGGAATTGAGGGAATGGTTGAGCTCA
ACGACTGTGATCCCCGGTCTATCCACGTGCGGGAGGATGGGTCCCTGGAGATTGGAGACACAACAATTTCTCTC
GGTACTTGCCTGGTGGGGCTATCACTGAAGTCAAGAGACCCAAGACTGTGAGACATAAGTCCCTGGACACAGCCC
TGCTCCAGCCCCATGTGGTGGCCAGAGCTCCAGGAAGTTACCATGCCCCACTGCCTGCATCAGGCCTTCTGTG
CACTGCACAAGTTCCAGCACCTCCATGGCCGGCCACCCAGCCCTGGGATCCTGTTGATGCAGAGACTGTGGTGG
GCCTGGCCCGGGACCTGGAACCACTGAAGCGGACAGAGGAAGGCCACTGGAAGAGCCACTGGATGAGGCCCTAG
TGCGGACAGTCCGCCAAGCAGTGCAAGGTGTCTTGAGCCTATGGTGGCATGCTGGGTGAGTAGCTGCCAGGAA
GTGCTGAAGGCAATCTCCAGAAGTTCACTGCTCTGGACCAGTGGCTTTACTTTGATGCCCTCGATTGTCTTCCGG
AAGATGGGGAGCTCCTTCCCAGTCTGAGGACTGTGCCCTGAGAGGCAGCCGCTATGATGGGCAAATGTCAGTGT
TTGGGGCTGGTTTTCAGGAGAACTGAGACGCCAGCACTACCTCCTGGTGGGCGCTGGTGCCATTGGTTGTGAGC
TGCTCAAAGTCTTTGCCCTAGTGGGACTGGGGCCGGGAACAGCGGGGGCTTGACTGTTGTTGACATGGACCACA
TAGAGCGCTCCAATCTCAGCCGTGAGTTTCTCTTCAAGTCCCAGGACGTTGGTAGACCCAAGGCAGAGGTGGCTG
CAGCAGCTGCCCGGGCCTGAACCCAGACTTACAGGTGATCCCGCTACCTACCCACTGGATCCCACCACAGAGC
ACATCTATGGGGATAACTTTTTCTCCCGTGTGGATGGTGTGGCTGCTGCCCTGGACAGTTTCCAGGCCCGGCGCT
ATGTGGCTGCTCGTTGCACCCACTATCTGAAGCCACTGCTGGAGGCAGGCACATCGGGCACCTGGGGCAGTGCTA
CAGTATTCTATGCCACATGTGACTGAGGCCTACAGAGCCCTGCTCAGCTGCAGCTTCTGAGGATGCCCCCTACC
CTGTCTGTACCGTGCGGTACTTCCCTAGCACAGCCGAGCACACCCCTGCAGTGGGCCCGGCATGAGTTTGAAGAAC
TCTTCCGACTGTCTGCAGAGACCATCAACCACCACCAACAGGCACACACCTCCCTGGCAGACATGGATGAGCCAC
AGACACTCACCTTACTGAAGCCAGTGCTTGGGGTCTGAGAGTGGTCCACAGAACTGGCAAGACTGTGTGGCGT
GGGCTCTTGGCCACTGGAACTCTGCTTTTATTATGGCATCAAACAGCTGCTGAGGCCTTCCCACCTAATAAAG
TGCTTGAGGATGGAACTCCCTTCTGGTCAGGTCCCAAACAGTGTCCCAGCCCTTGGAGTTTGACACCAACCAAG
ACACACACCTCCTCTACGTACTGGCAGCTGCCAACCTGTATGCCCAGATGCATGGGCTGCCTGGCTCACAGGACT
GGACTGCACTCAGGGAGCTGCTGAAGCTGCTGCCACAGCCTGACCCCAACAGATGGCCCCCATCTTTGCTAGTA
ATCTAGAGCTGGCTTCGGCTTCTGCTGAGTTTGGCCCTGAGCAGCAGAAGGAAGTGAACAAAGCCCTGGAAGTCT
GGAGTGTGGGCCCTCCCCGAAGCCTCTGATGTTTGAAGGATGATGACAGCAACTTCCATGTGGACTTTGTGG
TAGCGGCAGCTAGCCTGAGATGTCAGAACTACGGGATTCCACCGGTCAACCGTGCCAGAGCAAGCGAATTGTGG
GCCAGATTATCCCAGCCATTGCCACCACTACAGCAGCTGTGGCAGGCCTGTTGGGCCTGGAGCTGTATAAGGTGG
TGAGTGGGCCACGGCCTCGTAGTGCTTTGCGCCACAGCTACCTACATCTGGCTGAAAACCTACCTCATCCGCTATA
TGCCTTTTGCCCCAGCCATCCAGACGTTCCATCACCTGAAGTGGACCTCTTGGGACCGTCTGAAGGTACCAGCTG
GGCAGCCTGAGAGGACCCCTGGAGTCGCTGCTGGCTCATCTTCAAGGAGCAGCACGGGTTGAGGGTGAGGATCCTGC
TGCACGGCTCAGCCCTGCTCTATGCGGCCGATGGTCACCTGAAAAGCAGGCCCAGCACCTGCCCCCTCAGGGTGA
CAGAACTGGTTACGAGCTGACAGGCCAGGCACCTGCTCTGGGCAGCGGGTGTGGTGCTAGAGCTGAGCTGTG
AGGGTGACGACGAGGACACTGCCTTCCCACCTCTGCACTATGAGCTGTGACAAGGCAGCCACCCTGTACCTAGC
TCAATGGAGCCCCGGATCCCAAGCCCTGCATTGTAAGCCACAGTAGGCACTCAATAATTGCTGTAAAGGAAG
G

38/2682
FIGURE 36

MDALDASKLLDEELYSRQLYVLGSPAMQRIQGARVLVSGLQGLGAEVAKNLVLMGVGSLTLHDPHPTCWSDLAAQ
FLLSEQDLERSRAEASQELLAQLNRAVQVVVHTGDITEDLLLDQVVLTAAKLEEQLKVGTLCCHKHGVCFLAAD
TRGLVGQLFCDFGEDFTVQDPTEAEPLTAAIQHISQSGPGILTLRKGANHYFRDGDLVTFSGIEGMVELNDCDP
RSIHVREDGSLEIGDTTTTFSRYLRGGAITEVKRPKTVRHKS LDTALLQPHVVAQSSQEVHHAHCLHQAF CALHKF
QHLHGRPPQPWDPVDAETVVGLARDLEPLKRTEEEPLEEPLDEALVRTVALSSARCLEPMVACWVSSCPGSAEGN
LQKFMPLDQWLYFDALDCLPEDGELLPSPEDCALRGSRYDGQIAVFGAGFQEKLRQHYLLVGAGAIGCELLKVF
ALVGLGAGNSGGLTVVDMDHIERSNLSRQFLFRSQDVGRPKAEVAAAAARGLNPD LQVIPLTYPLDPTTEHIYGD
NFFSRVDGVAAALDSFQARRYVAARCTHYLKPLLEAGTSGTWGSATVFMPHVTEAYRAPASAAA SEDAPYPVCTV
RYFPSTAHTLQWARHEFEELFRLSAETINHHQQAHTSLADMDEPQTLTLLKPV LGVLRVRPQNWQDCVAWALGH
WKLCFHYGIKQLLRHFPPNKVLEDGTPFWSGPKQCPQPLEFD TNQDTHLLYVLAAANLYAQMHGLPGSQDWTALR
ELLKLLPQPD PQMAPIFASNLELASASAEFGPEQQKELNKALEVWSVGPP LKPLMFEKDDDSNFHVDFVVAAS
LRCQNYGIPPVNRAQSKRIVGQIIPAIATTTAAVAGLLGLELYKVVS GPRPRSAFRHSYLHLAENYLIRYMPFAP
AIQTFHHLKWT SWDR LKVPAGQPERTLESLLAHLQE QHGLRVRILLHGSALLYAAGWSPEKQAQHLPLRVTEL VQ
QLTGQAPAPGQRVLVLELSCEGDDEDTAF PPLHYEL

39/2682
FIGURE 37

GACAGCCACGAAGATCCTACCAAAATGAAGCGCTTCCTCTTCCTCCTACTCACCATCAGCCTCCTGGTTATGGTA
CAGATACAAACTGGACTCTCAGGACAAAACGACACCAGCCAAACCAGCAGCCCCCTCAGCATCCAGCAGCATGAGC
GGAGGCATTTTCCTTTTCTTCGTGGCCAATGCCATAATCCACCTCTTCTGCTTCAGTTGAGGTGACACGTCTCAG
CCTTAGCCCTGTGCCCCCTGAAACAGCTGCCACCATCACTCGCAAGAGAATCCCCTCCATCTTTGGGAGGGGTG
ATGCCAGACATCACCAGGTTGTAGAAGTTGACAGGCAGTGCCATGGGGGCAACAGCCAAAATAGGGGGGTAATGA
TGTAGGGGCCAAGCAGTGCCCAGCTGGGGGAGAATAAAGTTACCCTTGCTACTGCA

40/2682
FIGURE 38

MKRFLFLLLTISLLVMVQIQTGLSGQNDTSQTSSPSASSSMSGGIFLFFVANAIHLCFS

41/2682

FIGURE 39

TATATTGGCAGTTATTGAGGGTAAAGCAATATATTGTAACAGAATGTATAAAATTTTTTGATAAACAGTCTATA
TTTTATTAAAAATGAATTATAACCCATTTTCAGTTTTGCCTGCATCATAAGAGTGAGCACTCCATTGCTTTCTT
TCCTGGCCACACTGCTACAATCCAGCACTAACTATCCATGTCCAGGGTAAGGATCGAGATCGAGAAGCCCACACT
GCCAGTGAAAAAGCTACGTCTTTACTGCATAAATTAGAGGAAGCAATTCGGAACAACGGAACCTTCAAACCTATA
AATACTGAATTATCGAACACTTGCCAGGCACTTCAGCAGAAGACAAGGAACTGAAGAAGCTTTTTAGATGAGGA
ATTTCTCACTATGATTCCCTGTCTGCGCAGATGCAATTCAACAACCTCTTCAAGAAAAATTGAAGCAGTGTG
CCACAACTATATGGTGGTCAAGAAGCAAGAATACATCAGACACCCCTGACCTTGAAACATACGTGCTGGTACAC
ACCTCTGCTGGATGCTTATCTCTGGATAGTTTTACAGCAGTTCCAACCTGGAATCAACACCTTTCTCAGGTGT
AGCCAACCAATCCACACTCTGTGTGAAGGCCCCACATATGGAGAAGTAAAGGATGGTGTGTTGGATGTAAAAAG
ACAACACAAGTGCCAGGCCCCACAAGTGCCCCAGCCAGGAACGAATCTCTCAGGCTGCATCAGGATGAATGA
TGACCAAGTATGGAAGAGAATGGTGTGAACGCGTGTGTCTGAGAGCCTGCTGCAGTCCAGGGGATATTCTCTC
ACTACCATTACCCAGACACACTTCATCGACAGACGGTACTATAACTTCAAGTGATCCTGGATTAGAAATTCTGAA
TATGGCTTCTTGTGACCTTGACAGAACTCGCTCTGTAAAGAAAGAGGAGGATACAAGATCAGCTTCTCCACGAT
AGAGGCCCAAGGCACAAGTCCAGCTCATGATAATATTGCATTCCAAGACTCTACGAGTAAGGATAAAACCATATT
AAATCTGGAAGCCAAAGAGGAACCAGAAACAATAGAAGAACATAAAAAAGAACATGCTTCAGGAGACTCTGTGGT
TTCCCCCTCTTCTGTAACTGTAACCGTTAAGCTTAGACAAAGTGAGAACACTTCTGCTAATGAGAAGGA
GGTGGAGGCAGAAATTTCTCAGATTATCTTTGGGATTTAAGTGTGACTGGTTTACCTTGGAGAAGAGAGTGAAGCT
TGAAGAGAGGTCCCCTGACTGGGCAGAAAGAAAATTTGAAGAAAGAAATCACTAACTCTTTAAACTATTAGAGTC
TTTAACACCTCTGTGTGAAGATGACAACAGGCACAGGAAATCATTAAAGAGCTGGAGAAGAGTATAAAGTTTCT
TAGCCAGTGTGCAGCACGAGTGGCCAGTAGGGCTGAGATGTTGGGAGCCATCAATCAGGAAAGCCGGGTTAGTAA
AGCAGTTGAAGTGATGATTACGACGTAAGAACTTGAAGAGGATGTATGCCAAAGAGCACGCTGAATTAGAAGA
ACTGAAACAGGTTCTTCTGAGAATGAAAGGTCTTTCAATCCTCTTGAAGATGATGATGACTGCCAAATTAAGAA
ACGTTCACTTCTCTAACTCCAAGCCATCTTCTCTACGAAGAGTGACTATTGCCTCTTTACCCAGAAATATTGG
AAATGCAGGAATGGTGGCTGGGATGGAAAATAATGATCGATTACAGTAGAAGGTCAAGCAGTTGGCGTATTTTGGG
GTCAAAGCAGAGTGAACACCGTCCCTCATTACCTCGATTTATTAGCACCTATTCTGGGCAGATGCTGAAGAAGA
AAAATGTGAACATAAACTAAAGATGACTCAGAGCCATCTGGAGAAGAAACAGTAGAAAGGACAAGGAAGCCAAG
TCTTTCTGAAAAGAAAAATAATCCATCAAAGTGGGATGTCTCTTCAGTTTATGACACAATAGCTTCTGGGCAAC
AAATCTCAAGTCTCCATCAGAAAGGCTAATAAGGCCCTCTGGCTCTCTATTGCATTCTATTGTACTGTTTGCAGC
TTTGATGAGCTTCTCACAGGCCAATTATTCCAGAAGTCTGTGGATGCCGCTCCACACAGCAAGAGGACTCATG
GACGTCTCTAGAACATATCTTGTGGCCATTTACCAGACTCCGACACAATGGGCCACCACAGTGTGACAGCAGGA
CATCTAATATATGGATCTTGATTTTTAAGTTTCAGTATCTGAACTTCGTAAATTAGTAACTTTTAGCTGGGAAA
GTATAGCATGAAACCAGAGGTTCTCAGAATGACCGTAAGATAGCTTACATTTCTCTTTTGCCTTTATCTCCCC
AACTAAAATACAATGGG

42/2682

FIGURE 40

MESTPFGSVANQIHTLCERPTYGEVKDGDALDVKRQHKCPGPTSGPSPGTNLSGCIRMNDPDSMEENGVERVCPES
LLQSRGYSSLPLPRHTSSTDGTTTSSDPGLEILNMASCDLDRNSLCKKEEDTRSASPTIEAQGTSPAHDNIAFQD
STSKDKTILNLEAKEEPETIEEHKKEHASGDSVVSPLPVTTVKS VNVROSENTSANEKEVEAEFLRLSLGFKCDW
FTLEKRVKLEERSRDWAEENLKKEITNSLKLLSLTPLCEDDNQAQEI IKKLEKSIKFLSQCAARVASRAEMLGA
INQESRVSKAVEVMIQHVENLKRM YAKEHAELEELKQVLLQNERSFNPLED DDDDCQIKKRSASLNSKPSSLRRVT
IASLPRNIGNAGMVAGMENNDRF SRRSSSWRILGSKQSEHRPSLPRFISTYSWADAEEEKCELKTKDDSEPSGEE
TVERTRKPSLSEKKNNPSKWDVSSVYDTIASWATNLKSSIRKANKALWLSIAFIVLFAALMSFLTGLFQKSVDA
APTQQEDSWTSLEHILWPFTRLRHNGPPPV

43/2682
FIGURE 41

ACGCGTCCGCTTCGGAATGAGAGACTCAACCATAATAGAAAAGTGGAGAACTATTAACCACCATTCTTCAGTGG
GCTGTGATTTTTCAGAGGGGAATACTAAGAAATGGTTTTCCATACTGGAACCCAAAGGTAAAGACACTCAAGGACA
GACATTTTTGGCAGAGCATAGATGAAAATGGCAAGTTCCTGGCTTTCTTCTGCTCAACTTTTCATGTCTCCCTC
TTCTTGGTCCAGCTGCTCACTCCTTGCTCAGCTCAGTTTTCTGTGCTTGGACCTCTGGGCCCATCTGGCCATG
GTGGGTGAAGACGCTGATCTGCCCTGTCACCTGTTCCCGACCATGAGTGCAGAGACCATGGAGCTGAGGTGGGTG
AGTTCCAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAGGAAGTGAAGACAGGCAGAGTGCACCATAT
CGAGGGAGAACCTTCGATTCTGCGGGATGGCATCACTGCAGGGAAGGCTGCTCTCCGAATACACAACGTACAGCC
TCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATGGTGACTTCTACGAAAAGCCCTGGTGGAGCTGAAGGTT
GCAGCATTGGGTTCTGATCTTCACATTGAAGTGAAGGTTATGAGGATGGAGGGATCCATCTGGAGTGCAGGTCC
ACTGCTGGTACCCCCAACCCCAAATAAAGTGGAGCGACACCAAGGGAGAGAATCCCGGCTGTGGAAGCACCT
GTGGTTGCAGATGGAGTGGCCCTGTATGCAGTAGCAGCATCTGTGATCATGAGAGGCAGCTCTGGTGGGGGTGTA
TCCTGCATCATCAGAAATTCCTCCTCGGCCCTGGAAGACAGCCAGCATATCCATCGCAGACCCCTTCTTCAGG
AGCGCCAGCCCTGGATCGCGGCCCTGGCAGGGACCTGCCTATCTCGTTGCTGCTTCTCGCAGGAGCCAGTTAC
TTCTGTGGAGACAACAGAAGGAAAAAATTGCTCTGTCCAGGGAGACAGAAAAGAGAGCGAGAGATGAAAGAAATG
GGATACGCTGCAACAGAGCAAGAAATAAGCCTAAGAGAGAAGCTCCAGGAGGAACCTCAAGTGGAGGAAAATCCAG
TACATGGCTCGTGGAGAGAAGTCTTTGGCCTATCATGAATGGAATGGCCCTCTTCAAACCTGCGGATGTGATT
CTGGATCCAGACACGCCAAACGCCATCCTCCTTGTCTTCTGAGGACCAGAGGAGTGTGCAGCGTGTGAAGAGCCG
CGGGATCTGCCAGACAACCCCTGAGAGATTGAATGGCGTTACTGTGTCCTTGGCTGTGAAAACCTTCACATCAGGG
AGACATTACTGGGAGGTGAAGTGGGGGACAGAAAAGAGTGGCATATTGGGGTATGTAGTAAGAACGTGGAGAGG
AAAAAAGGTTGGGTCAAATGACACCGGAGAACGGATACTGGACTATGGGCCTGACTGATGGGAATAAGTATCGG
GCTCTCACTGAGCCCAGAACCAACCTGAAACTTCTGAGCCTCTAGGAAAGTGGGGATCTTCTGGACTATGAG
ACTGGAGAGATCTCGTTCTATAATGCCACAGATGGATCTCATATCTACACCTTTCCGCACGCCCTCTTCTCTGAG
CCTCTATATCCTGTTTTTCAGAATTTTGACCTTGGAGCCCACTGCCCTGACCATTTGCCAATAACAAAAGAAGTA
GAGAGTTCCCCCGATCTGACCTAGTGCCTGATCATTCCCTGGAGACACCACTGACCCCGGGCTTAGCTAATGAA
AGTGGGGAGCCTCAGGCTGAAGTAACATCTCTGCTTCTCCCTGCCACCCTGGAGCTGAGGTCTCCCCTTCTGCA
ACAACCAATCAGAACCATAAGCTACAGGCACGCACTGAAGCACTTTACTGATATTTCATTCCATTATTCATATGA
CAGTTGTTTTGAGTTTCGTACCACCTTATTGTCCCTTATACAGATAAGGAAACTGGGGTGCAGAAAGGTGAATT
AACTTTACAAAGTAGACATGACAAGTGAACAGCAGAGCTGGGATCTAAACAGCAATAACTAACATTAACAGAGAA
TTTAAATGTTCTTAGTGCTGTGTTATAAGCTTTGGTGGATGTCACCTTTAATCCTCACAACACCCCTGTCCGG
TAGTCATATTTTGAAGTATGGAAGCTGAGGCAGGGCAACATGAAGTAACCTACATAATTCATACAGTAATTTGT
GCAGTTGGGAGATGTTAGCCTTAGTCCCTGGCTAATTGCCTGTTCTTTTCCAGCCTGATTTTTTTTCCACAGG
AAGAGCCCATGATGAGCCCTGAGGTTTCTTCCAGGACAGCTGCAGGGTAGAGATCATTTTAAGTGCTTGTGGA
GTTGACATCCCTATTGACTCTTCCAGCTGATATCAGAGACTTAGACCCAGCACTCCTTGGATTAGCTCTGCAG
AGTGTCTTGGTTGAGAGAATAACCTCATAGTACCAACATGACATGTGACTTGGAAAGAGACTAGAGGCCACACTT
GATAAATCATGGGGCACAGATATGTTCCCAACCAACAAATGTGATAAGTGATTGTGCAGCCAGAGCCAGCCTTCC
TTCAATCAAGGTTTCCAGGCAGAGCAAATACCCTAGAGATTCTCTGTGATATAGGAAATTTGGATCAAGGAAGCT
AAAAGAATTACAGGGATGTTTTAATCCCACTATGGACTCAGTCTCCTGGAATAGGTCTGTCCACTCCTGGTCA
TTGGTGGATGTTAAACCCATATTCCTTTCACTGCTGCCTGCTAGGGAAAAGTCTCCTCATTATCATCACTATT
ATTGCTCACCCTGTATCCCTCTACTTGGCAAGTGGTTGTCAAGTCTAGTTGTTCAATAAATGTGTTAATAAT
GAAAAA

44/2682

FIGURE 42

MKMASSLAFLLLNFHVSFLVQLLTPCSAQFSVLGPGPILAMVGEDADLPCHLFPTMSAETMELRWVSSSLRQV
VNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYLCYFQDGDYFYEKALVELKVAALGSDL
HIEVKGYEDGGIHLECRSTGWYPQPQIKWSDTKGENIPAVEAPVVADGVGLYAVAASVIMRGSSGGGVSCIIRNS
LLGLEKTASISIAFPFFRSAQPWIAALAGTLPISLLLLAGASYFLWRQQKEKIALSRETEREREMKEMGYAATEQ
EISLREKLQEELKWRKIQYMARGEKSLAYHEWKMALFKPADVILDPDTANAILLVSEDQRSVQRAEPRDLDPNP
ERFEWRYCVLGCENFTSGRHYWEVEVGDRKEWHIGVCSKNVERKKGWVKMTPENGYWTMGLTDGNKYRALTEPRT
NLKLPEPPRKVGIFLDYETGEISFYNATDGSHIYTFPHASFSEPLYPVFRILTLEPTALTICPIPKEVESSPD
LVPDHSLETPLTPGLANESGEPQAEVTSLLLPAHPGAEVSPSATTNQNHLQARTEALY

45/2682
FIGURE 43A

CCGGGCTGCGCGGCGAGGCTGAGCCGGGGCCCGGCGCGGGGGCCGGGGCGGCTGGCGCGGGCAGGAAGCGCCTC
GCGGACCCGGGGCCCGCCCCCGCCTCCCGCGCGCTCCGGGCTCCCGGCTCCCGGCGCGCCTCGCCCCATGCACT
CGCCGCGCCGCGCAGCCCGCGCACGCCCAGATGCTCCTCGCGCGCGGGCGGCGCACCCCTTAGCGCCCGGGCC
GCCGCCGCCAGCCCCCGCCGTTCAGACGCCGCGCGGTGCCCGTGCCTGCTGTTGCTGCTGCTCCTGGGG
GCGGCGCGGGCCGGCGCCTGGAGATCCAGCGTGGTTCCCTCGCCACGCCACCAACAACCTTCGCCCTGGAC
GGCGCGGGGGACCGTGTACCTGGCGGCCGTCAACCGCCTCTATCAGCTGTGGGGCGCCAACCTGAGCCTGGAG
GCCGAGGCGGGCGTGGGCCCCGTGCCGACAGCCCGCTGTGTACGCTCCGAGCTGCCGAGGCCTCGTGCGAG
CACCCGCGGGCCTCACGGACAATAACAAGATCCTGCAGCTGGACCCCGGCCAGGGCCTGGTAGTCGTGTGC
GGGTCCATCTACAGGGCTTCTGCCAGCTGCGGCGCCGGGGTAACATCTCGGCCGTGGCCGTGCGCTTCCCGCC
GCCGCGCCGCCGCCGAGCCCGTACGGTGTTCGCCAGCATGCTGAACGTGGCGGCCAACACCCGAACGCGTCC
ACCGTGGGGCTAGTTCTGCCTCCCGCGCGGGCGCGGGGGCAGCCCGCTGCTCGTGGGCGCCACGTACACCGGT
TACGGCAGCTCCTTCTTCCCGCGCAACCGCAGCCTGGAGGACCACCGCTTCGAGAACACGCCCGAGATCGCCATC
CGCTCCCTGGACACGCGCGGCGACCTGGCCAAGCTCTTACCTTCGACCTCAACCCCTCCGACGACAATCCTC
AAGATCAAGCAGGGCGCCAAGGAGCAGCACAAGCTGGGCTTCGTGAGCGCCTTCCTGCACCCGTCCGACCCGCCG
CCGGGTGCACAGTCTACGCGTACCTGGCGCTCAACAGCGAGGCGCGCGCGGGCGACAAGGAGAGCCAGGCGCGG
AGCCTGCTGGCGCGCATCTGCCTGCCCCACGGCGCCGGCGGCGAGCCAAGAAGCTACCGAGTCTACATCCAG
TTGGGCTTGACGTGCGCGGGCGGCGCGGGCCGCGCGACCTCTACAGCCGCTGGTGTGCGTCTTCCAGCCCGG
GAGCGGCTCTTTGCTGTCTTCGAGCGGCCCCAGGGGTCCCCCGGGCCCGCGCTGCTCGGCGCGCACTCTGCGCC
TTCCGCTTCGCGACGTGCGAGCCGCCATCCGAGCTGCGCGCACCGCCTGCTTCGTGGAACCGGCGCCCGACGTG
GTGGCGGTGCTCGACAGCGTGGTGCAGGGCACGGGACCGGCTGCGAGCGCAAGCTCAACATCCAGCTCCAGCCA
GAGCAGCTGGACTGTGGAGCTGCTACCTGCAGCACCCGCTGTCCATCTGCAGCCCTGAAGGCCACGCCCGTG
TTCCGCGCCCCGGGCTCACCTCCGTGGCCGTGGCCAGCGTCAACAATAACAGCGGTCTTCTGGGCACGGTC
AACGGGAGGCTTCTCAAGATCAACCTGAACGAGAGCATGCAGGTGGTGGAGAGGCGGGTGGTGACTGTGGCCTAT
GGGGAGCCCGTGACCATGTGATGAGTTTGACCCAGCAGACTCCGTTTACCTTTACCTGATGAGCTCCACCAG
ATGGCCAGGGTGAAGGTGCGCGCCTGCAACGTGCACTCCACCTGTGGGGACTGCGTGGGTGCGGCGGACGCCTAC
TGCGGCTGGTGTGCCCTGGAGACGCGGTGCACCTTGACGAGGACTGCACCAATTCCAGCCAGCAGCATTTCTGG
ACAGTGCCAGCGAGGGCCCCAGCCGCTGTCTGCCATGACCGTCTGCTTCCGAGATCGATGTGCGCCAGGAG
TACCCAGGCATGATCTGCAGATCTCGGGCAGCCTGCCAGCCTCAGTGGCATGGAGATGGCCTGTGACTATGGG
AACAACATCCGCACTGTGGCTCGGGTCCCAGGCCCTGCCTTTGGTACCAGATTGCCTACTGCAACCTCCTGCCG
AGGGACCAGTTTCCGCCCTTCCCCCAACCAGGACCACGTGACTGTTGAGATGTCTGTGAGGGTCAATGGGCGG
AACATCGTCAAGGCCAATTTACCATCTACGACTGCAGCCGCACTGCACAAGTGTACCCCCACACAGCCTGTACC
AGCTGCTGTGCGCACAGTGGCCCTGTTTCTGGTGCAGCCAGCAGCACTCCTGTGTTTCAACCAGTCTCGGTGC
GAGGCCTACCAAACCCACAGAGCCCTCAGGACTGCCCCCGGACCCTGCTCTACCCCTGGCACCCGTGCCTACG
GGTGGTCCCAGAACATCCTGGTGCCTCTGGCCAACACTGCCTTTTCCAGGGTGCAGCCCTGGAGTGTAGTTTT
GGGCTGGAGGAGATCTTCGAGGCTGTGTGGGTGAATGAGTCTGTGTACGCTGTGACCAGGTGGTGTGCACACG
ACCCGGAAGAGCCAGGTGTTCCCGCTCAGCCTCCAATAAAGGGGCGGCCAGCCGATTCTGGACAGCCCTGAG
CCCATGACAGTCATGGTCTATAACTGTGCCATGGGCAGCCCCGACTGTTCCAGTGCTGGGCCGCGAAGACCTG
GGTCACTGTGATGTGGAGTGTGGCTGCCGCTGCGGGGCTCTGCAGCCCATGGCTGGCACCTGCCCCGCC
CCCGAGATCCGCGCGATTGAGCCCTGAGTGGCCGTTGGACGGTGGGACCCTGCTGACCATCCGAGGAAGGAAC
CTGGGCCGCGGCTCAGTGACGTGGCCACGGCGTGTGGATTGGTGGTGTGGCCTGTGAGCCACTGCCTGACAGA
TACACGGTGTGCGAGGAGATCGTGTGTGTACAGGGCCAGCCCCAGGACCACTCTCAGGTGTGGTGACCGTGAAC
GCCTCTAAGGAGGGCAAGTCCCGGACCGCTTCTCTACGTGCTGCCCCCTGGTCCACTCCCTGGAGCCTACCATG
GGCCCCAAGGCCGGGGCACCAGGATCACCATCCATGGGAATGACCTCCATGTAGGCTCCGAGCTCCAGGTCTTG
GTGAACGACACAGACCCCTGCACGGAGCTGATGCGCACAGATACCAGCATCGCCTGCACCATGCCTGAGGGGGCC
CTGCCGGCTCCGGTGCCTGTGTGTGTGCGCTTCGAGCGTGGGGCTGCGTGCACGGCAACCTCACCTTCTGGTAC
ATGCAGAACCCGGTCAACACGGCCATCAGTCCCCGCGCAGCCCTGTGAGTGGCGGAGGACCATCACAGTGGCT
GGTGAGCGTTTCCACATGGTGCAGAATGTGTCCATGGCCGTCCACCACATTGGCCGGGAGCCACGCTCTGCAAG
GTTCTCAACTCCACCCTCATCACCTGCCCCGTCCCCGGGGCCCTGAGCAACGCATCAGCGCCAGTGGACTTCTTC

46/2682
FIGURE 43B

ATCAATGGGCGGGCCTACGCAGACGAGGTGGCTGTGGCTGAGGAGCTACTGGACCCCGAGGAGGCACAGCGGGGC
AGCAGGTTCCGCCTGGACTACCTCCCCAACCCACAGTTCTCTACGGCCAAGAGGGAGAAGTGGATCAAGCACCAC
CCCCGGGAGCCTCTCACCTCGTTATCCACAAGGAGCAGGACAGCCTGGGGCTCCAGAGTACAGAGTACCGGGTC
AAGATAGGCCAAGTAAGCTGCGACATCCAGATTGTCTCTGACAGAATCATCCACTGCTCGGTCAACGAGTCCCTG
GGCGCGCCGTGGGGCAGCTGCCCATCACAATCCAGGTAGGGAACCTTCAACCAGACCATCGCCACACTGCAGCTG
GGGGTAGCGAGACGGCCATCATCGTGTCCATCGTCATCTGCAGCGTCTGTGCTGCTCTCCGTGGTGGCCCTG
TTCGTCTTCTGTACCAAGAGCCGACGTGCTGAGCGTTACTGGCAGAAGACGCTGCTGCAGATGGAGGAGATGGAA
TCTCAGATCCGAGAGGAAATCCGCAAAGGCTTCGCTGAGCTGCAGACAGACATGACAGATCTCACCAGGAGCTG
AACCAGAGCCAGGGCATCCCTTCTCGAGTATAAGCACTTCGTGACCCGCACCTTCTTCCCCAAGTGTTCCTCC
CTTTATGAAGAGCGTTACGTGCTGCCCTCCAGACCCTCAACTCCAGGGCAGCTCCAGGCACAGGAAACCCAC
CCACTGCTGGGAGAGTGAAGATTCTTGAGAGCTGCCGGCCCAACATGGAAGAGGGAATTAGCTTGTTCCTCA
CTACTCAACAACAAGCACTTCCTCATCTGTTGTCCACGCGCTGGAGCAGCAGAAGGACTTTGCGGTGCGCGAC
AGGTGAGCCCTGGCCTCGCTGCTGACCATCGCGCTGCACGGCAAGCTGGAGTACTACACCAGCATCATGAAGGAG
CTGCTGGTGGACCTCATTGACGCTCGGCCGCAAGAACCCCAAGCTCATGCTGCGGCGCACAGAGTCTGTGGTG
GAGAAGATGCTCACCAGTGGATGTCCATCTGCATGTACAGCTGTCTGCGGGAGACGGTGGGGGAGCCATTCTTC
CTGCTGCTGTGTGCCATCAAGCAGCAAATCAACAAGGGCTCCATCGACGCCATCACAGGCAAGGCCCCGCTACACA
CTCAATGAGGAGTGGCTGCTGCGGGAGAACATCGAGGCCAAGCCCCGGAACCTGAACGTGTCTTCCAGGGCTGT
GGCATGGATCGCTGAGCGTGGGGCCATGGACACCGACACGCTGACACAGGTCAAGGAGAAGATCCTGGAGGCC
TTCTGCAAGAATGTGCCCTACTCCCAGTGGCCGCGTGCAGAGGACGTCGACCTTGAGTGGTTGCGCTCCAGCACA
CAGAGCTACATCCTTCGGGACCTGGACGACACCTCAGTGGTGAAGACGCGCCGCAAGAAGCTTAACACGCTGGCC
CATTACAAGATCCCTGAAGGTGCCTCCCTGGCCATGAGTCTCATAGACAAGAAGGACAACACACTGGGCCGAGTG
AAAGACTTGGACACAGAGAAGTATTTCCATTTGGTGCTGCCTACGGACGAGCTGGCGGAGCCCAAGAAGTCTCAC
CGGCAGAGCCATCGCAAGAAGGTGCTCCCGGAAATCTACCTGACCCGCTGCTCTCCACCAAGGGCAGCTTGAG
AAGTTTCTGGATGACCTGTTCAAGGCCATTCTGAGTATCCGTGAAGACAAGCCCCACTGGCTGTCAAGTACTTT
TTGCACTTCTGGAGGAGCAGGCTGAGAAGAGGGGAATCTCCGACCCCGACACCTACACATCTGGAAGACCAAC
AGCCTTCTCTCCGGTTCTGGGTGAACATCTGAAGAACCCCCAGTTGTCTTTGACATCGACAAGACAGACCAC
ATCGACGCTGCTTTTCTAGTCATCGCGCAGGCTTCATCGACGCTGCTCCATCTCTGACCTGCAGCTGGGCAAG
GATTGCGCAACCAACAAGCTCCTCTACGCCAAGGAGATTCTGAGTACCGGAAGATCGTGCAGCGCTACTACAAG
CAGATCCAGGACATGACGCCGCTCAGCGAGCAAGAGATGAATGCCCATCTGGCCGAGGAGTGCAGGAAATACCAG
AATGAGTTCAACACCAATGTGGCCATGGCAGAGATTATAAGTACGCCAAGAGGTATCGGCCGAGATCATGGCC
GCGCTGGAGGCCAACCCACGGCCCGGAGGACACAAGTTCAGCAGCAAGTTTGAGCAGGTGGTGGCTTTGATGGAG
GACAACATCTACGAGTGTACAGTGAGGCCCTGAGACACATGGAGAGTTGGTCAGGCTGCTGCTGGGAGAAATGGA
CGCCCACTGGGCTCAACTTGATCTTCTACCCGCTGCTGTGACTCAGACTGGGAAATACTGAGCAGAGACGGCT
GGGGCGGGGGCAGGAGGAGGGGCTGCTCTCTGAGACAGGGGCGCCCCGCTTGACCCCTGGGCACCTCCATCCC
CTCCCACCTGTCCCAGATCAGTCTCTGGGATGGAGGCCAGAGAGCTGGTCAGGCTCCCCCATCTGCCAGCAGC
GCCTGCAGTGTGCCACCCACTTGCTCCACAACGTCCAGTTGGTCTGCTGCCAAGAGCCCCGTGCATCCAGGCG
GCCAAGCACAACTGGGGGAGAGGAGGCCGCGCAGCCCGAGGCTGCAGCCAGAACTCTACCTCATCCCACTG
GTGCAGGGAGCCCTCCTTGAAGTACCTTTGATTGGTTCTGCTTCAACTACCAAATGTTATCTCCACTTCCCC
CTCAGCCGTAGAGGATCCTGGCCACAGACAGTTTCAAGTAGTGTGAGATTTTGTGCTGGGCGGCTGTGGTA
GAGTGGGCAGTGCCCGCGCCATGGGGTGTCTGTGGGCTTCTCCAGGAGCAGGGAGGGTGGAGGGGAGGGATGGG
GGGCACAGGAGCTGGGAGCCCCGTCTCCAGGAAAAGGAGAGGGGTTAAGATGCACCGAGGCTGTAGCTGGGCTAC
TTGATCTTGCTGAAAGTGTCTTAAAGATAGCACCCTTTTTTTTTTAAAGCTTTTATATATTAACAAACGTATC
ATGC

47/2682
FIGURE 44

PGCAARLSRARAPGPGAAGAGRKRLADPGPPASRRRLRAPGSRPRLAPCTRRAAQPAHARMAPRAAGGAPLSARA
AAASPPPFQTPPRCPVPLLLLLLLGAARAGALEIQRRFPSPPTNNFALDGAAGTVYLAAVNRLYQLSGANLSLE
AEAAGVPVDPDPLCHAPQLPQASCEHPRRLTDNYNKILQLDPPGQGLVVVCGSIYQGFQQLRRRGNISAVAVRFPF
AAPPAEPVTVPFMSMLNVAANHPNASTVGLVLPFAAGAGGSRLLVGATYTYGYSSFFPRNRSLEDHRFENTPEIAI
RSLDTRGDLAKLFTFDLNPSSDNLKIKQGAKEQHKLGFVSAFLHPSDPPPGAQSYAYLALNSEARAGDKESQAR
SLLARICLPHGAGGDAKLTESYIQLGLQCAGGAGRGDLYSRLVSVPFARERLFAVFERPQGSFAARAAPALCA
FRFADVRAAIRAARTACFVEPAPDVAVLDSVVQGTGPACERKLNILQLOPEQLDCGAHLQHPLSILQPLKATPV
FRAPGLTSVAVASVNNYTAVFLGTVNGRLLKINLNEISMVVSRRVTVAYGEPVHHVMQFDPADSVYLYLMTSHQ
MARVKVAACNVHSTCGDCVGAADAYCGWCALETRCTLQQDCTNSSQQHFWTSASEGPSRCPAMTVLPSEIDVRQE
YPGMILQISGSLPSLSGEMACDYGNNIRTVARVPGFAGHQIAYCNLLPRDQFPFPFNQDHTVEMSVRVNGR
NIVKANFTIYDCSRTAQVYPHTACTSCLSAQWPCFWSQQHSCVSNQSRCEASPNPTSPQDCPRTLLSPLAPVPT
GGSQNILVPLANTAFFQGAALCESFGLLEEIFEAVWVNESVVRCDQVVLHTRKTSQVFPLSLQLKGRPARFLDSPE
PMTVMVYNCAMGSPDCSQCLGREDLGHLCMWSGDCRLRGPLQPMAGTCPAPEIRAIEPLSGPLDGGTLLTIRGRN
LGRRLSDVAHGVWIGGVACEPLPDRTYVSEEIVCVTGPAPGPLSGVVTVNASKEGKSRRDRFSYVLPVHSLEPTM
GPKAGGTRITIHGNDLHVGSSELQVLVNDTDPCTELMRTDTSIACMPEGALPAPVPVCVRERRGCVHGNLTFWY
MQNPVITAISPRRSPVSGGRTITVAGERFHMVQNVSMVHHIGREPTLCKVLNSTLITCPSGALSNASAPVDF
INGRAYADEVAVAEELLDPEEAQRGSRFRDLPLNPQFSTAKREKWKHHHPGEPLTLVIHKEQDSLGLQSHEYRV
KIGQVSCDIQIVSDRIHCSVNESLGAAVGQLPITIQVGNFNQTIATLQLGGSETAIIVSIVICSVLLLLSVVAL
FVFCTKSRAERYWQKTLQMEEMESQIREEIRKGFALQTDMDLTKELNRSQGIPFLEYKHVTRTFFPKCSS
LYEERYVLPSQTLNSQGSSQAQETHPLLGEWKIPESCRPNMEEGISLFSLLNNKHFLIVFVHALEQQKDFAVRD
RCSLASLLTIALHGKLEYYTSIMKELLVDLIDASAANKPKMLLRRTESVVEKMLTNWMSICMYSCLRETIVGEPFF
LLLCAIKQQINKGSIDAITGKARYTLNEEWLLRENIEAKPRNLNVSFQCGMDSLVRAMDTDLTQVKEKILEA
FCKNVPSQWPRAEDVDLEWFASSTQSYILRDLDTSVVEDGRKKLNTLAHYKIEGASLAMSLIDKKDNTLGRV
KDLDEKYFHLVLPDELAEPKSHRQSHRKKVLPEIYLRLLSTKGTQKFLDDLKAILSIREDKPPLAVKYF
FDFLEEQAEKRGISDPDTLHIWKTNSLPLRFWNILKNPQFVFDIDKTDHIDACLSVIAQAFIDACSIDLQLGK
DSPTNKLLYAKEIPEYRKIVQRYKQIQDMTPLSEQEMNAHLAEESRKYQNEFNTNVAMAEIKYAKRYRPQIMA
ALEANPTARTQLQHKFEQVVALMEDNIYECYSEA

48/2682
FIGURE 45

CCCCTGCCCCGACAGCGCCGCCCTGCCCCGCCATGGGTCGACAGAAGGAGCTGGTGTCCCGCTGCGGGGA
GATGCTCCACATCCGCTACCGGCTGCTCCGACAGGCGCTGGCCGAGTGCCTGGGGACCCCTCATCCTGGTGATGTT
TGGCTGTGGCTCCGTGGCCCAGGTTGTGCTCAGCCGGGGCACCACGGTGGTTTCCCTACCATCAACCTGGCCTT
TGGCTTTGCTGTCACTCTGGGCATCCTCATCGCTGGCCAGGTCTCTGGGGCCACCTGAACCCTGCCGTGACCTT
TGCCATGTGCTTCCTGGCTCGTGAGCCCTGGATCAAGCTGCCCATCTACACCCTGGCACAGACGCTGGGAGCCTT
CTTGGGTGCTGGAATAGTTTTTGGGCTGTATTATGATGCAATCTGGCACTTCGCCGACAACCAGCTTTTTGTTTC
GGGCCCCAATGGCACAGCCGGCATCTTTGCTACCTACCCCTCTGGACACTTGGATATGATCAATGGCTTCTTTGA
CCAGTTTCATAGGCACAGCCTCCCTTATCGTGTGTGTGCTGGCCATTGTTGACCCCTACAACAACCCCGTCCCCG
AGGCCTGGAGGCCTTACCGTGGGCCTGGTGGTCTGGTCAATTGGCACCTCCATGGGCTTCAACTCCGGCTATGC
CGTCAACCCTGCCCGGGACTTTGGCCCCCGCCTTTTTACAGCCCTTGCGGGCTGGGGCTCTGCAGTCTTCACGAC
CGGCCAGCATTGGTGGTGGGTGCCCATCGTGTCCCCACTCCTGGGCTCCATTGCGGGTGTCTTCGTGTACCAGCT
GATGATCGGCTGCCACCTGGAGCAGCCCCACCCTCCAACGAGGAAGAGAATGTGAAGCTGGCCCATGTGAAGCA
CAAGGAGCAGATCTGAGTGGGCAGGGGCCATCTCCCCACTCCGCTGCCCTGGCCTTGAGCATCCACTGACTGTCC
AAGGGCCACTCCCAAGAAGCCCCCTTACGATCCACCCTTTAGGCTAAGGAGCTCCCTATCTACCCTCACCCCA
CGAGACAGCCCCCTTCAAGATTTCCTACTGGACCTTGCCCAAATAGCACCTTAGGCCACTGCCCTAAGCTGGGGTG
GAACCGGAATTTGGGTCAATACATCCTTTTGTCTCCCAAGGGAAGAGAATGGGCAGCAGGTATGTGTGTGTGTC
ATGTGTGTGCATGTGTGTGCATGTGTGTGCAGGGGTGTGTGTGTGTGGGGGGGTTCCAGATATTCAGGGCAAG
GGACCAGTCGGAAGGGATTCTGGCTATTGGGGGAGCCAGAGACAGGGGAAGGCAGCCTGTCCATCTGTGCATAA
GGAGAGGAAAGTTCCAGGGTGTGTATGTTTCAGGGGCTTCACATGGAGGAGCTGCAGATAGATATGTGTTTCTGT
GTATGTGTATGTCTGCCTTTTTTTCTAAGTGGGGGCTTCTACAGGCTTTTGGGAAGTAGGGTGGATGTGGGTAGG
GCTGGGAGGAGGGGGCCACAGCTTAGGTTTGGAGCTCTGGATGTACATACATAAGTAGGAGCAGTGGGACGTGTT
TCTGTCTAATGCAGGCATGAAGGGTGGAGTGAAGTCAGGTCATAAGTTTCATGTTTGCTTTTGTGTTTGTGTT
TTTTAATGTATGTAGCAGATGTTACAGTCTTAGGGATCCGGGATGGGAGACCCCACTTTAGAAAGGGTCGTCACT
CCTTTAATCCTCTACTCAACAATGTACTCTTTTACTTTTATATTAAAAAAATAAAATAAATATGTGCCTAAAAA
AAAAAAAAA

49/2682
FIGURE 46

MGRQKELVSRGEMLHIRYRLRQALAECLGTLILVMFGCGSVAQVVLSRGTHGGFLTINLAFGFAVTLGILIAG
QVSGAHLNPAVTFAMCFLAREPWIKLPITYTLAQTLGAFLGAGIVFGLYYDAIWHFADNQLFVSGPNGTAGIFATY
PSGHLDMINGFFDQFIGTASLIVCVLAIVDPYNNPVPRGLEAFTVGLVVLVIGTSMGFNSGYAVNPARDFGPRLF
TALAGWGSVFTTGQHWWVPIVSPLLGSIAGVFVYQLMIGCHLEQPPPSNEEENVKLAHVKHKEQI

50/2682
FIGURE 47

ACCAACCTCTTCGAGGCACAAGGCACAACAGGCTGCTCTGGGATTCTCTTCAGCCAATCTTCATTGCTCAAGTGT
CTGAAGCAGCCATGGCAGAAGTACCTGAGCTCGCCAGTGAAATGATGGCTTATTACAGTGGCAATGAGGATGACT
TGTTCTTTGAAGCTGATGGCCCTAAACAGATGAAGTCTCCTTCCAGGACCTGGACCTCTGCCCTCTGGATGGCG
GCATCCAGCTACGAATCTCCGACCACCACTACAGCAAGGGCTTCAGGCAGGCCGCGTCAGTTGTTGTGGCCATGG
ACAAGCTGAGGAAGATGCTGGTTCCTGCCCACAGACCTTCCAGGAGAATGACCTGAGCACCTTCTTTCCCTTCA
TCTTTGAAGAAGAAGCTATCTTCTTCGACACATGGGATAACGAGGCTTATGTGCACGATGCACCTGTACGATCAC
TGAAGTGCACGCTCCGGGACTCACAGCAAAAAAGCTTGGTGATGCTGTGTTCCATATGAACTGAAAGCTCTCCACC
TCCAGGGACAGGATATGGAGCAACAAGTGGTGTCTCCATGTCCTTTGTACAAGGAGAAGAAAGTAATGACAAAA
TACCTGTGGCCTTGGGCCTCAAGGAAAAGAATCTGTACCTGTCCTGCGTGTGAAAGATGATAAGCCCACTCTAC
AGCTGGAGAGTGTAGATCCCAAAAATTACCCAAAGAAGAAGATGAAAAGCGATTTGTCTTCAACAAGATAGAAA
TCAATAACAAGCTGGAATTTGAGTCTGCCAGTTCCTCACTGGTACATCAGCACCTCTCAAGCAGAAAACATGC
CCGTCTTCCTGGGAGGGACCAAGGCGGCCAGGATATAACTGACTTCACCATGCAATTTGTGTCTTCCATAAGAG
AGCTGTACCCAGAGAGTCTGTGCTGAATGTGGACTCAATCCCTAGGGCTGGCAGAAAGGGAAACAGAAAGGTTTT
TGAGTACGGCTATAGCCTGGACTTTCCCTGTGTCTACACCAATGCCCAACTGCCTGCCTTAGGGTAGTGCTAAGA
GGATCTCCTGTCCATCAGCCAGGACAGTCAGCTCTCTCCTTTCAGGGCCAATCCCCAGCCCTTTTGTGAGCCAG
GCCCTCTCTCACCTCTCCTACTCACTTAAAGCCCGCTGACAGAAACCACGGCCACATTTGGTTCTAAGAAACCCCT
CTGTCAATTCGCTCCACATTCTGATGAGCAACCGCTTCCCTATTTATTTATTTATTTGTTTGTGTTTATTCA
TTGGTCTAATTTATTTCAAAGGGGGCAAGAAGTAGCAGTGTCTGTAAGAGCCTAGTTTTTAATAGCTATGGAAT
CAATTCATTTGGACTGGTGTGCTCTCTTTAAATCAAGTCCTTTAATTAAGACTGAAAATATATAAGCTCAGATT
ATTTAAATGGGAATATTTATAAATGAGCAAATATCATACTGTTCAATGGTTCTGAAATAAACTTCTCTGAAG

51/2682
FIGURE 48

MAEVP ELASEMMAYYS GNEDDLFF EADGPKQM KCSFQDL DLCPLDGGIQLRISDHHYSKGFRQAASVVVAMD KLR
KMLVPCPQTFQENDLSTFFPFIFEEEP IFFDTWDNEAYVHDAPVRS LNCTLRDSQQKSLVM SGPYELKALHLQGO
DMEQQVVFMSFVQGEESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKR FVFNKIEINN K
LEFESAQFPNWIYSTSQAENMPVFLGGTKGGQDITDFTMQFVSS

52/2682
FIGURE 49A

CCCTTTTCTCCCGTTTTGAAGAGACAATGCTACTTTCAGTTTGGAGCACAAACATATGATCAGCACATGGAAAT
GTGGTAATTCGGATGCATTTCGTGATTGCAACAGATTGAAGAAATTAGACCAGACAAAGAGTGTTTTTAGAGGAGA
GAGGAGGAGGAGGAGGCTGAGAGAGGGAGGGCGACGGGGGTGAGAAAGGGGAGGCCGCCTCTGAGCGGGACGCCG
GGACTCCCAGCGCTGCTAAATATATCCGTAGAATGGAGAGGGACCGGATCTCAGCCTTGAAAAGATCTTTTGAGG
TCGAGGAGGTCGAGACACCAACTCCACCCACCCCGAGGGTCCAGACTCCCCTACTCCGAGCCACTGTGGCCA
GCTCCACCCAGAAATTCAGGACCTGGGCGTGAAGAACTCAGAACCCTCGGCCCGCCATGTGGACTCCCTAAGCC
AACGCTCCCCCAAGGCGTCCCTGCGGAGGGTGGAGCTCTCGGGCCCCAAGGCGGCCGAGCCGTTGTCGGCGCA
CTGAGCTGTCCATTGACATCTCGTCCAAGCAGGTGGAGAACGCCGGGGCCATCGGCCCGTCCCGGTTCCGGGCTCA
AGAGGGCCGAGGTGTTGGGCCACAAGACGCCAGAACCAGGCCCTCGGAGGACGGAGATCACCATCGTCAAACCCC
AGGAGTCAGCCCACCGAGGATGGAGCCCCCTGCCTCCAAGGTCCCCGAGGTGCCACTGCCCTGCCACCGACG
CAGCCCCCAAGAGGGTGGAGATCCAGATGCCCAAGCCTGCTGAGGCGCCACCGCCCCAGCCCAGCCCAGACCT
TGGAGAATTCAGAGCCTGCCCCCTGTGTCTCAGCTGCAGAGCAGGCTGGAGCCCAAGCCCCAGCCCCCTGTGGCTG
AGGCTACACCCCGAGCCAGGAGGCCACTGAGGCGGCTCCAGCTGCGTTGGCGACATGGCCGACACCCCCAGAG
ATGCCGGGCTCAAGCAGCGCCTGCATCACGGAACGAGAAGGCCCGGTGGACTTCGGCTACGTGGGGATTGACT
CCATCTGGAGCAGATGCCCGGAAGGCCATGAAGCAGGGCTTCGAGTTCAACATCATGGTGGTGGGCGAGAGCG
GCTTGGGTAAATCCACCTTAATCAACACCCCTCTTCAAATCCAAAATCAGCCGGAAGTCGGTGCAGCCACCTCAG
AGGAGCGCATCCCCAAGACCATCGAGATCAAGTCCATCACGCACGATATTGAGGAGAAAGGCGTCCGGATGAAGC
TGACAGTGATTGACACACCAGGGTTCGGGGACCACATCAACAACGAGAAGTCTGGCAGCCCATCATGAAGTTCA
TCAATGACCAGTACGAGAAATACCTGCAGGAGGAGGTCAACATCAACCGCAAGAAGCGCATCCCGACACCCGCG
TCCACTGCTGCCTCTACTTCATCCCCGCCACCGGCCACTCCCTCAGGCCCTGGACATCGAGTTTATGAAACGCC
TGAGCAAGGTGGTCAACATCGTCCCTGTATCGCCAAGGCGGACACACTACCCCTGGAGGAGAGGGTCCACTTCA
AACAGCGGATCACCGCAGACCTGCTGTCCAACGGCATCGACGTGTACCCCAAGGAATTTGATGAGGACTCGG
AGGACCGGCTGGTGAACGAGAAGTTCGGGAGATGATCCCATTTGCTGTGGTGGGCAGTGACCACGAGTACCAGG
TCAACGGCAAGAGGATCCTTGGGAGGAAGACCAAGTGGGGTACCATCGAAGTTGAAAACACCACACACTGTGAGT
TTGCTACCTGCGGGACCTTCTCATCAGGACGCACATGCAGAACATCAAGGACATCACCAGCAGCATCCACTTCG
AGGCGTACCGTGTGAAGCGCTCAACGAGGGCAGCAGCGCCATGGCCAACGGCGTGGAGGAGAAGGAGCCAGAAG
CCCCGAGATGTAGACGCCCTGCCCCACCCCGGGATCCTGCCCCCAAGTCATTTCCGTCCCCCCCCCAGGCC
TCCCACCACCCCATTTTATTTTATATGATTTTCTCCATTTGTTCATCGTTCCCCACCCCTTCGACATGCTGCCAGG
AAACAAGGGAAGGGGCTCCCTCCGAGTGAGTCAGTGATGAGGCCGCGGCTCCCGAGGTTGTGGGGAGGCTGC
ACTGGAGCCACAGGCAGGGGTGAGAGCACCCACTGAATTGACATGACCCTCTGTCCCAGGCCTGGCTCCCCGAG
GGCTCAGAAGAGCAGCTTCGGTGTGCAGATCATCCGTGCTGTGGGGTTCTCAGTGCCGAGCTTGGGGTGGGGC
CAGGCCTCGCACTTGACAGAGGAGCCAGTGGGCTGCACGCTCCCTCCATCCCCATCGGCCCTGTCCCTGGAGT
GTGTGAGAGCCAGGGGAGAATGCAGCCCACAGGAGCACCTGGACCCCTGCCCCGCACATGGTGTGGCCATCA
CTCAGCCCCTACCCCTGCCCTGCTCCTAAGGGTAGAAAACCTCAGGGTCCCCTGCCACCGACTGCCAGCCACTC
CAAGCCCCCTGGCAGCTGCCCTCCTGGAGCAGAAAGTGCTTTATCTCAGCCATCCGAGACTGCTGGCCAGAT
GCGGGGACAGGCTGGAATGAGGGAGGCGTCTTCACTCCCTGCCATCCCCCTCTCAGCCACCCCGCCCCACC
GGGCTGCAGGTGCTGCTGATGCGCTGGGATCTGATTGAGGATAAAAAGGAAGGAGAGATGACCCCTACCCCTCA
TCCCCAGTTTTGAAAAGGTCTAAGCAAGTGAGTCTGGTGGAGGAGCTGAGGGAGGGACCATGGAAGGTGCCAG
AAGGAAGGTTGGCGGGGACGTTGGGCCGTGGCTGGGCTGGTCAGAGTGGCGTGAGCTGCCCGGCGCTGCC
CTGCCAAGTGACCAGGGAAGTGTGTGTGTTCATGTGTATGCGTGTCCGTCTGTCTGTCTAGTGTCTGGGTTT
GGCCCCAAGACTGGGCTGTAGTTACATTAATGCCAGCCAGCCACCCCTGCCACTACCCCTCCTGGCCAGGCCT
TGCTGACTCTCTGAGCTGGGGAGGTGGGAGGCCAGCGAGCCTGACTCTGTTGATCTACCCGTGCTGGGCCCT
CCCCTCAGAGCCCATGGTAACGAACCCCTAGAAAGGAGAGAACGGGCGTCAGGGGTGCACAGTCCACAGCTGAAG
AGCAAGGTTTCGTGGCAGCACGGCCCGGCCCTCACCCTCTGTCCCACGAGGGGACCATGGGGGCTGTCTTTG
CAGGGCACAGATGACCAAGTCCCTTCTGCTTCTGTTACCTGTCTGCTCCTGGGGAGAAAGAGGGGCTGAT
GAGACTCCACTCAGGTGCACACATCACCAGGTGCATCTGCAGGCACCGGGCTGGCTGCTGCAGCCAGGAGAAGG
TCAGCGAGAAGGAGTGTATGAGTGTGAGTGTGTGTCATGGAAGTTGGGGCACTGGGCGTCTGACTCCCTCCCA
CCCAAGAGAGGAAGGACCCCTCACCACCCCACTGGCGAGACAGTTTACTTTGCCGACTTGCCATGTTTTTGCCA

53/2682
FIGURE 49B

AAACCAAGATTTTGAAGGAAATGAGTGGCCAGCGCCAGGGCCCAGGCCATGTGGCCTGCCAGCCTCAATGTCAC
TTGGCGGCGGGGTGGGGTGGGGTGGGCAGCAGCATCCAGCCTTGAGATGCTTCACTTTCCTTCTGTAAACCA
GACTTTGAAAAATTGTTGTTTTTCATCAGGCTCTGTTCCCTCAATGGCCTTTGCTACGTGCCTCCCGAGAAATTG
TCTTTTGTATAAATGACAAAGTGTGAAAATGTATTCCTGAAATAAATGTTTCAAATGCAGAAACCCAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

54/2682
FIGURE 50

MERDRISALKRSFEVEEVETPNSTPPRRVQTPLLRA TVASSTQKFQDLGVKNSEPSARHVDLSQRS PKASLRV
ELSGPKAAEPVSRRELSIDISSKQVENAGAIGPSRFG LKRAEVLGHKTPEPAPRTEITIVKPQESAHRMEPP
ASKVPEVPTAPATDAAPKRVEIQMPKPAEAPTAPSPA QTLNSENAPVSQLQSRLEPKPQPPVAEATPRSQEATE
AAPSCVGDMADTPRDAGLKQAPASRNEKAPVDFGYVG IDSILEQMRRKAMKQGFEFNIMVVGQSGLGKSTLINTL
FKSKISRKSVQPTSEERIPKTIEIKSITHDIEEKGV RMKLTVIDTPGFGDHINNENCWQPIMKFINDQYEKYLQE
EVNINRKKRIPDTRVHCCLYFIPATGHSRLPLDIEF MKRLSKVVNIVPVIAKADTLTLEERVHFKQRITADLLSN
GIDVYPQKEFDEDEDRLVNEKFREMIPFAVVGSDHE YQVNGKRILGRKTKWGTIEVENTHCEFAYLRDLLIRT
HMQNIKDITSSIHFEAYRVKRLNEGSSAMANGVEEKE PEAPEM

55/2682
FIGURE 51

GGCACGAGGGGAAGTTGCCGGCGGCCGCGCGGCCCTCCCGGGCGGGCCTACAGCCATGTCCCGGGACCCGGGGTCG
GGCGGCTGGGAGGAGGCCCCGCGCGCAGCTGCCGCGCTCTGCACCCTGTACCACGAGGCCGGACAGCGGCTGCGC
CGCCTGCAGGACCAGCTCGCTGCCGCGACGCCCTCATCGCTCGCCTCCGCGCCCCGCTGGCCGCGCTGGAGGGG
GACGCCGCGCCGTCCCTAGTGGACGCGCTGCTGGAGCAGGTTGCGCGCTTCCGGGAGCAGCTGCGAAGGCAGGAG
GGCGGGCGCCGAGGCCAGATGCCAGGAAATTGAGAGGCTGACTGAGCGACTAGAAGAAAAAGAGAGGGAG
ATGCAGCAGCTGCTGAGCCAGCCCCAACACGAGCGAGAGAAGGAAGTCGTCTGCTACGGAGGAGCATGGCAGAA
GGGAGCGCGCCCGGGCCGAGTGACGTCTGTGCCCTCCTTGGCCAACGAGACCCATCAGCTGCGGAGGACG
CTGACCGCCACCGCCACATGTGTACGATCTGGCCAAGTGTCTGGATGAACGACAGCATGCACAAAGGAATGTG
GGGAGAGAGAAGTCTTGACCAGTCGGAACACACAGATGGGCACACCTCTGTCCAGAGTGTATTGAGAAGTTGCAG
GAAGAAAATCGACTGTTAAACAGAAGGTGACTCACGTTGAAGACCTCAATGCCAAGTGGCAGCGCTACAACGCC
AGCAGGGGACGAATACGTGAGGGGGCTCCATGCGCAGCTCAGGGGGCTGCAGATCCCCACGAGCCCGAGCTGATG
AGGAAGGAGATCTCCCGGCTCAACAGACAGTTGGAAGAGAAAATAAATGACTGTGCCGAAGTGAAGCAGGAGCTG
GCGGCCCTCCAGGACGGCCCGGGATGCTGCGTTGGAGCGGGTGCAGATGCTGGAACAGCAGATTCTCGCTTACAAG
GATGACTTCATGTCAGAAAGGGCCGATCGGGAACGGGCTCAAAGTAGGATTCAAGAACTGGAGGAAAAGGTGCGC
TCTTTGCTGCACCAGGTGTCTGGAGACAGGATTCTCGAGAGCCAGACGCGCGCCGGATTACGCTGGGAGCAAA
ACTGCCAAGTATTTGGCCGCCGACGCATTAGAGCTTATGGTGCCTGGTGGCTGGAGGCCTGGGACTGGGTCCCAG
CAGCCAGAACCCCTGCAGAGGGCGGGCATCTGGCGCGGTCCAGAGAGGCCAGGGGGACCTTCAGTGCCCTCAC
TGCTGCAGTGCTTCAGTGACGAGCAAGGGGAAGAGCTCCTCAGGCATGTGGCCGAGTGCTGCCAGTGACCGAGA
CTCACCCTGCCCTTGCGGCCTCCTGGCCCGGTGCAGCTGCCCTCAGGGACAGGGTGGGTGCTCTCAGATGCCAT
GGGTTGAGCTCTACTGAGAGCCAAGGCCCTAGAATAGTTGCGGGGCACTCTGATCGTTCACTTTGGTCCCTTTG
GCTATGGAACAGGCTGGGTACAGGGAACTGCCAGTGAGGCTGGAGGCTGGAGGTGGAGATGGGGTCAGGAACAT
CTGGCAGAGGGAGGTCCCAGTCTGTGTCTCCATCAGGCTTAAGCCAGAGCTATCTGGTGTGGTGTGCCAGCCCC
TCCCCAGCCTGCCTAGAAAGGGGTGGCTGCCTGAGGGAGTCACTTGTATGGTCCCCAGGGTGGGAGCCCCATCC
TGTTCTATGGAATAAAGCGTCGCCTCTCTGCCTCGAACCAGTCAAATGGAGTATTGCGGCTGCACGTCACTAG
GGTGGCCACCCCGCCATTGCGAGCCACATGTCTGCACTGAGAACTGCATTTAGTAGCATTTGTATCCAGCC
GGAAGTTAAAGCACACTTACTTTATTACCTATTTTTATAATAAACGTTCTTGCTGCTGTGACTGCAAAAAAAA
AAAAAAA

56/2682

FIGURE 52

MQQLSQPOHEREKEVVLRRSMAEGERARAASDVLCSLANETHQLRRTLTATAHMCQHLAKCLDERQHAQRNV
GERSPDQSEHTDGHTSVQSVIEKLQEENRLLKQKVTHVEDLNAKWQRYNASRDEYVRGLHAQLRGLQIPHEPELM
RKEISRLNRQLEEKINDCAEVKQELAASRTARDAALERVQMLEQQILAYKDDFMSEADREERAQSRIQELEEKVA
SLLHQVSWRQDSREPDAGRIHAGSKTAKYLAADALELMVPGGWRPGTGSQQPEPPAEGGHPGAVQRGQDQLQCPH
CLQCFSDQGEELLRHVAECCQ

GTTCGCGCTGCGCACCTGGCTCAGGTGAGCTGCCCGCCCCCGCCGGCGCAGCCCCAGGTCTCTGGCAGCAGCC
CCTGACCTGTCCAGGTGCCCTGTCCAGCTGACTGCAAGGACAGAGAGGAGTCTCTGCCAGCTCTTGGATCAGTCT
GCTGGCCGAGGAGCCCGGTGGAGCCAGGGGTGACCTGGAGCCAGCCTGCCCGAGGAGGCCCGGCTCAGAGC
CATGCCAGGTGTCTGTGATAGGGCCCTGACTTCCTCTCCCGTCTGAAGACCAGGTGCTGAGGCCTGCCTTGGG
CAGCTCAGTGGCTCTGAACTGCACGGCTTGGGTAGTCTCTGGGCCCCACTGCTCCCTGCCTTCAGTCCAGTGGCT
GAAAAGACGGGCTTCCATTGGGAATTGGGGGCCACTACAGCCTCCACGAGTACTCTGGGTCAAGGCCAACCTGTC
AGAGGTGCTTGTGTCCAGTGTCTTGGGGGTCAACGTGAACAGCACTGAAGTCTATGGGGCCTTCACCTGCTCCAT
CCAGAACATCAGCTTCTCCTCCTTCACTCTTCAGAGAGCTGGCCCTACAAGCCACGTGGCTGCGGTGCTGGCCCT
CCTCCTGGTCTCTGCTGGCCCTGCTGCTGGCCGCCCTGCTCTATGTCAAGTGCCGTCTCAACGTGCTGCTCTGGTA
CCAGGACGCGTATGGGGAGGTGGAGATAAACGACGGGAAGTCTACGACGCTACGTCTCCTACAGCGACTGCC
CGAGGACCGCAAGTTCGTGAACCTTCATCCTAAAGCCGCAGCTGGAGCGCGCTCGGGGCTACAAGCTCTTCTGGGA
CGACCGCGACCTCTGCCGCGCGCTGAGCCCTCCGCCACCTCTTGGTGAACCTGAGCCGCTGCCGACGCCTCAT
CGTGGTGCTTTTCGACGCGCTTCTGAGCCGGGCTGGTGCAGCCACAGCTTCCGGGAGGGCCTGTGCCGGCTGCT
GGAGCTCACCCGCAGACCCATCTTTCATCACCTTCGAGGGCCAGAGGCGCAGCCCCGCGCACCCGGCGCTCCGCCT
GCTGCGCCAGCACCGCCACCTGGTGACCTTGTGCTCTGGAGGCCCGGCTCCGTGACTCCTTCTCCGATTTTTG
GAAAGAAGTGCAGCTGGCGCTGCCGCGGAAGGTGCGGTACAGGCCGCTGGAAGGAGACCCCCAGACGCAGCTGCA
GGACGACAAGGACCCCATGCTGATTCTTCGAGGCCGAGTCCCTGAGGGCCGGGCCCTGGACTCAGAGGTGGACCC
GGACCTGAGGGCGACCTGGGTGTCCGGGGGCTGTTTTGGAGAGCCATCAGCTCCACCGCACACCAAGTGGGGT
CTCGCTGGGAGAGAGCCGGAGCAGCGAAGTGACGTCTCGGATCTCGGCTCGCGAAACTACAGTGCCCGCACAGA
CTTCTACTGCCTGGTGTCCAAGGATGATAATGTAGCTCCACCCAGAGTGCAGGATCATAGGGACAGCGGGGGCC
AGGGCAGCGGCGTCTCTCTGCTCAACAGGACCACAACCCTGCCAGCAGCCTGGGACCCTGCCAGCAGCCC
TGGGAAAAGGCTGTGGCCTCAGGGCGCCTCCAGTGCCAGAAAATAAAGTCTTTTGGATTCTGAAAAAAAAA
AA

58/2682
FIGURE 54

MPGVCDRAPDFLSPSEDQVLRPALGSSVALNCTAWVVSQPHCSLPSVQWIKDGLPLGIGGHYSLHEYSWVKANLS
EVLVSSVLGVNVISTEVYGAFTCSIQNISSFSTLQIRAGPTSHVAASLLVLLALLLAALLYVKRLNVLLWY
QDAYGEVEINDGKLYDAYVSYSDCPEDRKVFNFILKPQLERRRGYKLFDDRDLLPRAEPSADLLVNLSRCRRLI
VVLSDAFLSRAWCSHSFREGLCRLELTRRPIFITFEGQRRDPAHPALRLLRQHRHLVTLWLWRPGSVTPSSDFW
KEVQLALPRKVRYRPVEGDPQTQLQDDKDPMLILGRVPEGRALDSEVDPDPEGDLGVRGPVFGEPSAPPHTSGV
SLGESRSSEVDVSDLGSRNYSARTDFYCLVSKDDM

59/2682
FIGURE 55A

GGTTGGCTCTTGCACTTCTCGGCTCTCTGGACTTGGTTATGTGATTGAGCCTCCATGGCCTCCGTGTCTTTGTCT
GTCAATGGGTTTGATTAAAGCGTTGACCTCATAGGTTCTTAGGAGGATTAAATGAGAACATTTTATGTAAAGTCG
TTACATGGAGCCTTGGTATGTGCCGGAAGCTTTAGCCCTTTATTAAGAGTGACAGCAGACCCAGCACGGTGGCT
CATGCCCTGTAATCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACTTGGGGTCAGGAGTTCGAGACCAGCTAC
TCGGGAGGCAGAGGCAGGAGAATCGCTTGAACCTGGGGTGACAGGTTGCAGTAAGCTGAGCTCGCACCAGTCA
CTCCAGCCTGAGTGACAGAGTGAACCTCAGTCTCAAAAAAAAAAAAAAAAAAGAGTGGCAGTAGTGGTGGGGGA
GACCCCATCCCCCTTGCTGGGGTTTCTAGGAAAGAAGGCTGGTGAGAGCTGTTGCTGGTGGTGGGCCCTGAGC
CGCAGGGTCTGAGGGCCTACCTGTGCTACCCAGAGCTGCCTGAGAATGGACAGACACGCGGGAGACGCTGCT
GGAGGGGATCTGTTTCAAGTACCTGGGCATGACGCTAGTGGAGCAGCCCAAGGGTGAGGAGCTGTCCGGC
CGCCGCCATCAAGAGGATCGTGGCTACAGCTAAGGCCAGTGGGAAGAAGCTGCAGAAGGTGACTCTGAAGGTGTC
GCCACGGGGAATTATCTGACAGACAACCTACCAACCAGCTCATTGAGAACGTGTCCATATACAGGATCTCCTA
TTGCACAGCAGACAAGATGCACGACAAGGTGTTTGCATACATCGCCAGAGCCAGCACAACCAGAGCCTCGAGTG
CCACGCCCTTCTCTGCACCAAGCGGAAGATGGCACAGGCTGTTACCTCACCCTAGCCAGGCCCTTCAAAGTCGC
CTTTGAGTTTGGCAGGTGTCCAAGGAAGAGAAGAGAAGAGGACAAAGCCAGCCAAAGAGGGAGGGGACGTCCT
GGGGGCGCCGCAAGACTGCACCCCCCTTGAAGAGCTTGGTCCCACTGGGAACCTGCTGGACTTAGAGGAGAC
GGTAAGGCCCCGCTGTCCACGGTCAGCGCCAACACCACCAACATGGACGAGGTGCCGCGGCCACAAGCCTTGAG
TGGCAGCAGTGTGTCTGGGTGAGTGGTTGTGTGGCCAGCAGATCGGTGATCCTCAGCCTGACCTCTGGGTGAGC
CTGGGGCTGTCTCCAGGGACAGGCTCTGGGACCCGTGACTTGTGGGCCTCTGGGAGGACCAGACCCAGCCCGGTA
GTGCCCAGGCGCAGGATAGGGGATGAACAATGTCCCTTTTGAACCTGAGGCTGCATCCCCAACAGGCTTGGCTCC
CAGCACAGCTGTCTCCTCACAATGCTTGGCCTCTTGGCCTGAGCGTCCACGGCTCTGCCCACCACAAGACCAGCC
AAAGGCGCCCTTGTCTTGTGTGGCAGAGCTCGCTCCTACCACCCCTCCCCCTCAGCCGCTGAATGAGGACCC
AGAGACTTGGGCAGTCACCAGCTTGGTCCCTGACTCCCTCAGGGACTCAGGGCAAGCCCCCTGACCTCTCTGTCT
CAGCTTTTTCACTCTCAGTAAGGGTGATGACCTCTGCCAACGGAATCTCCCCGAGGAACCTGAAATTTAATTTTAA
TTTTTCATTTGGAATAATTTTCACTGTGTTACAAAATTAGTACAGAGAATTCCTGTTTACCCGTCATCCAGAT
TCCCCAATTGTTAACTCTTGCATGACCACATTACACTGGTCAGAATCAGGAAACAAACAGTACTGTGCTGTT
ATATAATCTATAGAATTACACATTTCTCCAGGTGCCCTTTCAGTGTCTGTTTCTGGCCCAGGATCCATTGCAG
AATCACATGTTAACTTGTCTCTCTTTAATTTTTTAAAAATCTGGGTACTGGGGGCTCCCTGGTGTCCCTCGAGC
CTGTTCTCTGCTGTTTGGGAACCAACCTTGCCACTTGCCCATCCTCACCAGAACGCCATGGAGGGACCTCACCTG
TCGCTTTTCTGCTGAGGCTGTGGGACTCCTGGCATCAGTTATCCCTCATGAACCTTGGAAATTTTGGCTTGGCTTTT
GGAAGTAAATGAAGGCAAGAAAACCTCCCTTCCCCACCTCTTCTTTTGAATTTGAAAGCCATAGAAGTCATCA
GGTCCAATGCCCTCCTCTTATTGAAGGAAAAGCTGAGTTTCAACGTGGAGCAGTGACTTGCCCAAGGTCTCACGG
GCAGGTAGCATGGACCAGGGCACTGAACCCACCTGGGTCTCCAGACACCTGGGACATGGCCTTTCTCTCTCCC
ACGTCTCCAGCTTTGGGTCTTGGGCTGAGATGTGGCGATGCACCCAGGCAGGAGGCTGCTGAGGCCGTGCC
TCCAGGCGCCACCCCTGAGCTTGTGTCTGAGTCCCTGTAGCTTACCCAGGGCTGGGACAAGCCCCAGCTGTGAG
CATGGGCTCCCCAAACATAGTTCTTATCTCTGCTTTGTTTTTCCCAAGGAGCTGGATGATGGCCTGGATGAAG
CGTTTTCGAGGCTTGCCAGTCTCGGACAAACCCTCAGGTCTGGACACTGGCCTGACAGCCAGGACATGCATT
ACGCCCAGTGCCTCTCGCTGTCTGACTGGGACAAGCCTGACAGCAGCGGCACAGAGCAGGATGACCTCTTCAGCT
TCTGAGGGCCCCGGGGCCAGCCGGACACAAGCGGCCCTGACACGTGATGGACCAAGCCACCTGCTGCGGGGGAGC
CAGTTCTGGGGCCCCGCTGCCACCTCTCCAGCCCTCAGCATTGTGAGCCTGAAGATCAGAGCTGCAGCCAGTCA
GGCAGGGGAGAGATTTTCTTTTAAAGCCCTGCTCTTCTCTGAGAACCAAAAGATGCCTTGAATATTTATTCAGT
GACTTCTGGCTTATGCTCAGAAGCCAGTCTGCGTCAGGCACGTCTCTGCTGCGTGACATGTGCACTGTGTAAT
CGGCTCCCGCTTGCTCTCTGAGCAAGCTCTGCCCTGGCTGTGGGTATCAGGACTGTGACCAAGCATTCTAG
TCCCTTCTCTTTCTAAGGACCCAAATTTCCCTGGGGGCATCTGCTTCTGAAAGCTGTTGGATTTTCACTGAT
TTTTCCCCCACCACCCAGCACAGGAGAGCACCCACAGCCGAGAAGGGGAATGTGCTCTCTGCTCTGCTTCT
CAGGGCCAGCAGGCGGGGTTTGAAGCCCTGGACCCAGGCTCTTAGAGACTAAGGGGACGCTCTGACCAAGA
CGATACAGCTTGGCACTTTAAAGCATTAAACAGCAGGTGTGACCTGAGGGCTCCTCCATGGTGTGCTGATTGAGTC
CAGCTTCTCTTCTGCCCTTCTCCAGGAGAAGGGGCCCAAGGTCCCCGTGGATGGTCTCCACCTGTGCTTGAAC
CAGTGTAACCTGGCTGCTCCCTGCTCCAGGGACTGACACGGGGATCATCTGTGACCGCCCTCCGTGGGGCCCC

60/2682
FIGURE 55B

TGCCTGCCTTCTCCCTCCACGCAAGGCTGTGCTCTTCCTCTGGTTTCTGTGTGTCCGTTTGAGTGTCTGCGCCC
CGCCTCCCCATACTTCCTGGGATGATGTGTGAAACCTGACACCTAGATTTATTTGGAAATATTCTATGACCACTT
TACAGATGAGGAACTGAGGCCTCAAGCGTGGAGGGGTAGAGTGAAGAGTAGAACCCAGGTCTGATGCCAAAGCT
GCTTTCTTCTCTGCCTCCTCCTCAGCAACTCACACCTCCTTTTCTTCTAGCTTTGTTGTCTCCAGGAACCAA
AAAACCCAGCTATTTTCTGACCAAAATGTGTTTCATAACAAACCATCTGGTGCCTTTCCACACAGAACTGGCAG
GAGCCTCGTGTCTGCTAGCTGTCTCTCTTGTGATTTCGGTGAAAATGCAAGTGTGGAAGTCTGCTCATTCCG
AGGGTGAAACAAAATCCAACCTGTGAGAATCATGCTGTTCTTTGCTGACACTGTGACCCTGGGTGCGGGACAG
ACCAGCAGCAATCTGTCTTTAGAAICGCTTTCTTCCTCCCTTTTGCCCCGTGGGGCTCCCGGCATCCTGAAA
GCCAGCAAAGCCTCCAGCATCTTTCCATCCTGAGGTGCCTCCAGTGGCCTGGCTTGTGCGAGCAAGTTTCATC
AGCCCTAGGGAAAACACGGCCCTCCTGGGAACCTCCTTACCTGGAGTAACCGGACACCTTAGACGGAGGTGCCTG
AGGGTGGGGTGGGATTGTCAGGGTCATTATCAGAACATGAGGATAACTTCCTTGCCCCGTGCTCTGTAGCCACCTC
CTTGGCACCGCCTCTATTTGTCTATAAGGCGGCGTGGGCGAGGCCTGACACAGGCCAGCCTTGGCACGAGGGGGG
CCAGGGGTTCTGAGAAGCGCTGCCCTGTGAGAGCCACGCTGGCCTTCGTCTCCATCTCTGGTTGACGGGCTGTCC
GTTTGCCCTCTGTGTGTCTGCAGACAAGTCTTGCTGTGCTTTATTTGTGAACTTTAATGAGGAAAAACAAATA
ATAAATGTTCTCGTTTTGAAACTC

61/2682

FIGURE 56

MLFSLKYLGMTLVEQPKGEELSAAAIKRIVATAKASGKKLQKVTLKVSPRGIILTDNLTNQLIENVSIYRISYCT
ADKMHDKVFAYIAQSQHNQSLECHAFCTKRKMAQAVTLTVAQAFKVAFEFWQVSKEEKEKRDKASQEGGDLGA
RQDCTPPLKSLVATGNLLDLEETAKAPLSTVSANTTNMDEVPRPQALSGSSVWVSGCVASRSVILSLTSG

62/2682
FIGURE 57

GGCACGAGGGTTAGATTAGTCTGAAGCCGCCACCAGCCCCAGGCCCCCGTGCAGAAGAAAAGCGGGAGGGGAACGG
CGGAGGCCGCGCTGCCCTGCACCGCCCTCCTGGAGGCCACTTGGAGAGTCCGGCCCCGAGGAGGCCATGGCCAC
AAGTGCCCCACAGCTGGCCCCAGGTTGCCAGCGTCGCTACAGCCCAGACCAAGGCAGAATAATCTCCGGATGAGCT
GGTGGCACCGCTGAGCCTTTGGTCTCACCAGGGCTTCTGTGCTGGCAGGCGGGGTGGAGCGGAGCTGCTGGGA
GGCTGCTGGATAGGAGAGGGGTCACGGCTGCGGAAGAGGAGGTTCTTCGGGACACCCGTGGATGGACACGGCAAG
GAAACACCAGGCCAACCACAGCTGGGGATAAAATAGCACAACCACACCCTGCCGTCCAGCGCCTCCCAGCCTGTG
CCCCCTCCTAGTACCACCAGCAACCATCAATCCCGTCTCCTCCTGCCTCCTCCTGCAATCCACCCCGCCACGA
CTATCGCCATGGCAGCCCTGATCGCAGAGA Δ CTTCGCTTCTGTCACTTTCTTCAAGAGCAAGGATGTGATGA
TTTTCAACGGCCTGGTGGCACTGGGCACGGTGGGCAGCCAGGAGCTGTTCTCTGTGGTGGCCTTCCACTGCCCCT
GCTCGCCGGCCCGGAACCTACCTGTACGGGCTGGCGGCCATCGGCGTGCCCGCCCTGGTGCTCTTCATCATTGGCA
TCATCCTCAACAACCACACCTGGAACCTCGTGGCCGAGTGCCAGCACCAGGAGGACCAAGAAGTCTCCGCCGCC
CCACCTTCCTCCTTCTAAGCTCCATCCTGGGACGTGCGGCTGTGGCCCTGTACCTGGTCTGTCACTCTCCCTGC
TGCGTGGTGAGGCTTATGTCTGTGCTCTCAGTGAGTTCTGGACCCTTCCTCACTACGGCCAGGGAAGAGCACT
TCCCATCAGCCCACGCCACTGAAATCCTGGCCAGGTTCCCTGCAAGGAGAACCCTGACAACCTGTGCACTTCC
GGGAGGAGGTGAGCCGAGGCTCAGGTATGAGTCCCAGCTCTTTGGATGGCTGCTCATCGGCGTGGTGGCCATCC
TGGTGTTCCTGACCAAGTGCCCTCAAGCATTACTGCTCACCCTCAGCTACCGCCAGGAGGCCTACTGGGCGCAGT
ACCGCGCCAATGAGGACCAGCTGTTCCAGCGCACGGCCGAGGTGCACTCTCGGGTGCTCGCTGCCAACAATGTGC
GCCGCTTCTTTGGCTTTGTGGCGCTCAACAAGGATGATGAGGAAGTATTGCCAACTTCCAGTGGAAGGCACGC
AGCCACGGCCACAGTGGAATGCCATCACCGCGCTCTACTTGTACCGTGAGAACCAGGGCCTCCCCTCTACAGCC
GCCTGCACAAGTGGGCCAGGGTCTGGCAGGCAACGGCGCGGCCCTGACAACGTGGAGATGGCCCTGCTCCCCT
CCTTAAGGAGGTGCTTCCCATGCTCTTTGTAAATGGCACTACTTGGTCCCAAAGTGAACCCACTGCTTGCTCACA
TCCATATCAGAAGGGGATTTTAAAAAAGTGTATCTTCTTGGCCAGGGGAAAGGACCACAAGGCAATCTGGGGT
GTGGACAGACCCAGTAGACAATGGAAGCCAGCCAGCAGGGCCAGGTGACAGTGAAGCTCACCAGTGGGCTCCTT
TATGGTACTCTATGCAGTTAATATGTATCTAGCTGCATAGGGACACCCAGCGCAGCAGTGCACCACTGGGAAGTG
GCCTCCAGTGCAGCCTCTGGCCTTATTTTATATATTTAAATTTTGTATAAGTTTTCTTACTAAAAAAAAAAAA
AAAAAA

63/2682

FIGURE 58

MAALIAENFRFLSLFFKSKDVMIFNGLVALGTVGSQELFSVVAFHCPSPARNYLYGLAAIGVPALVLFIIIGIIL
NNHTWNLVAECQHRRTKNCSAAPTFLLLSSILGRAAVAPVTWSVISLLRGEAYVCALSEFVDPSSLTAREEHFPS
AHATEILARFPCKENPDNLSDFREEVSRRRLRYESQLFGWLLIGVVAILVFLTKCLKHYCSPLSYRQEAYWAQYRA
NEDQLFQRTAEVHSRVLAANNVRRFFGFVALNKDDEELIANFPVEGTQPRPQWNAITGVYLYRENQGLPLYSRLH
KWAQGLAGNGAAPDNVEMALLPS

64/2682
FIGURE 59

ACGAGGGACGCAGCCATGGCGGAGGCGGCTTTGGAAGCCGTGCGGAGCGAGTTACGAGAATCCCCGGCCGCTGCA
AGGGAGCTCTGCGTGCCCTCTTGCTGTGCCCTACCTGGACAAACCCCAACTCCGCTCCACTTCTACCGGGACTGG
GTCTGCCCCAACAGGCCGTGCATTATCCGCAACGCTCTGCAGCACTGGCCGGCCCTCCAGAAGTGGTCCCTCCCC
TATTTAGAGCCACAGTGGGCTCCACAGAGGTGAGTGTGGCCGTGACCCAGATGGTTACGCGGATGCCGTGAGA
GGGGATCGCTTCATGATGCCAGCTGAGCGCCGCTGCCCTGAGCTTCGTGCTGGATGTGCTGGAGGGCCGGGCC
CAGCACCTTGAGTCCCTATGTGTCAGAAGCAGTGCTCCAACCTGCCAGCGAGCTGCCAGCTGCTGCCTGAT
CTGGAATCCCATGTGCCCTGGGCTCCGAAGCCCTGGGAAAGATGCCCGATGCTGTGAACCTTCTGGCTGGGGGAG
GCGGCTGCAGTGACTTCTTGCACAAGGACCACTATGAGAACCTCTACTGCGTGGTCTCAGGAGAGAAGCATTTC
CTGTTCATCCGCCCAGCGACCGGCCCTTCATCCCTATGAGCTGTACACGCCGGCAACCTACCAGCTAACTGAA
GAGGGCACCTTTAAGGTGGTGGATGAAGAGGCCATGGAGAAGGCAGAGGTGTCCAGGACCTGCCTGCTCACGGTT
CGTGTCTGCAAGGCCATCGCCTACCCTCTAAGGACCTAGTGACCCCTCTGACTGCTACGTGACTCTCTGGCTG
CCCACGGCCTGCAGCCACAGGCTCCAGACACGCACGGTCAAGAACAGCAGTAGCCCTGTCTGGAACCAGAGCTTT
CACTTCAGGATCCACAGGCAGCTCAAGAATGTGATGGAACCTGAAAGTCTTTGACCAGGACCTGGTGACCGGAGAT
GACCCTGTGTTGTGCTAGTACTGTTTGTATGCGGGGACTCTGCGGGCTGGGGAGTTCGGCGCGAGAGCTTCTACTG
AGCCCTCAGGGTGAGGGGCGCCTGGAAGTTGAATTCGCTGTCAGAGTCTGGCTGACCGTGCGAGTGGCTCGTC
AGCAATGGCGTCTGTTGGCCCGGGAGCTCTCTGCTTGCACGTTCAACTGGAGGAGACAGGAGACCAGAAGTCC
TCAGAGCACAGAGTTACAGCTTGTGGTTCCTGGGTCTGTGAGGGTCCGCAGGAGGCCTCTGTGGGCACTGGCACC
TTCCGCTTCCACTGCCAGCCTGCTGGGAGCAGGAGCTGAGTATTCGCTGTCAGGATGCCCCGAGGAGCAACTA
AAGGCGCCACTGAGTGCCCTGCCCTCTGGTCAAGTGGTGAGGCTGTCTTCCCCACGTCCCAGGAGCCCCGTGATG
AGAGTGGAGCTGAAAAAAGAGCAGGACTGAGGGAGCTGGCCGTGCGACTGGGCTTCGGGCCCTGTGCAGAGGAG
CAGGCCTTCTGAGCAGGAGGAAGCAGGTGGTGGCCGCGCCCTGAGGCAGGCCCTGCAGCTGGATGGAGACCTG
CAGGAGGATGAGATCCAGTGGTAGCTATTATGGCCACTGGTGGTGGGATCCGGGCAATGACTTCCCTGTATGGG
CAGCTGGCTGGCCTGAAGGAGCTGGGCCTCTTGATTGCGTCTCTACATACCGGGGCCCTCGGGCTCCACCTGG
GCCTTGGCCAACCTTTATGAGGACCCAGAGTGGTCTCAGAAGGACCTGGCAGGGCCCACTGAGTTGCTGAAGACC
CAGGTGACCAAGAACAAGCTGGGTGTGCTGGCCCCAGCCAGCTGCAGCGGTACCGGCAGGAGCTGGCCGAGCGT
GCCCCGTGGGCTACCCAAGCTGCTTCACCAACCTGTGGGCCCTCATCAACGAGGCGCTGCTGCATGATGAGCCC
CATGATCACAAAGCTCTCAGATCAACGGGAGGCCCTGAGTCAATGGCCAGAACCTCTGCCCATCTACTGTGCCCTC
AACACCAAAGGGCAGAGCCTGACCACTTTTGAATTTGGGGAGTGGTGGAGTTCTCTCCCTACGAGGTGCGCTTC
CCCAAGTACGGGGCCTTCATCCCTCTGAGCTCTTGGCTCCGAGTCTTTATGGGGCAGCTGATGAAGAGGCTT
CCTGAGTCCCGCATCTGCTTCTTAGAAGGTATCTGGAGCAACCTGTATGCAGCCAACCTCCAGGACAGCTTATAC
TGGGCCTCAGAGCCCAGCCAGTTCTGGGACCGCTGGGTGAGGAACAGGCCAACCTGGACAAGGAGCAGGTCCCC
CTTCTGAAGATAGAAGAACCACCCTCAACAGCCGGCAGRATAGCTGAGTTTTTACCAGTCTTCTGACGTGGCGT
CCACTGGCCAGGCCACACATAATTCCTGCGTGGCCTCCATTTCCACAAAGACTACTTTCAGCATCCTCACTTC
TCCACATGGAAGCTACCACTCTGGATGGGCTCCCCAACAGCTGACACCCTCGGAGCCCCACCTGTGCTGCTG
GATGTTGGCTACCTCATCAATACCAGCTGCCTGCCCTCCTGCAGCCCACTCGGGAGCTGGACCTCATCCTGTCA
TTGGACTACAACCTCCACGGAGCCTTCCAGCAGTTGCAGCTCCTGGGCCGGTCTGCCAGGAGCAGGGGATCCCG
TTCCACCCATCTCGCCAGCCCCGAGAGCAGCTCCAGCCTCGGGAGTGCCACACCTTCTCCGACCCACCTGC
CCCGGAGCCCTGCGGTGCTGCACTTTCCTCTGGTTCAGCGACTCCTTCCGGGAGTACTCGGCCCTGGGGTCCGG
CGGACACCCGAGGAGGCGGCAGCTGGGAGGTGAACCTGTCTTCATCGGACTCTCCCTACCACTACACGAAGGTG
ACCTACAGCCAGGAGGACGTGGACAAGCTGCTGCACCTGACACATTACAATGTCTGCAACAACAGGAGCAGCTG
CTGGAGGCTCTGCGCCAGGCAGTGCAGCGGAGGCGGCAGCGCAGGCCCACTGATGGCCGGGGCCCCCTGCCACCC
CTAACTCTCATTTCATTCCTGGCTGCTGAGTTGCAGGTGGGAACTGTATCACGCAGTGCTTCAGAGCCTCGGGC
TCAGGTGGCACKGTCCAGGGTCCAGGCTGAGGGCTGGGAGCTCCCTTGCCTCAGCAGTTTGCAGTGGGGTAA
GGAGGCCAAGCCCATTTGTGTAATACCCAAAACCCCCGGCCTGTGCTGTTTTCCCTTCTGCGCTACCTTGAG
TAGTTGGAGCACTTGATACATCACAGACTCATACAAAAA

65/2682
FIGURE 60

MAEAALEAVRSELREFPAAARELCVPLAVPYLDKPPTPLHFYRDWVCPNRPCIIRNALQHWPALQKWSLPYFRAT
VGSTEVSAVTPDGYADAVRGDRFMMPAERRLPISFVLVDVLEGRAQHPPGVLYVQKQCSNLPSELQQLLPDLESHV
PWASEALGKMPDAVNFWLGEAAAVTSLHKDHYENLYCVVSGEKHFLFHPPSDRPFIPYELYTPATYQLTEEGTFK
VVDEEAMEKAEVSRCTLLTVRVLQAHRLPSKDLVTPSDCYVTLWLPTACSHRLQTRTVKNSSSPVWNQSFHFRIH
RQLKNVMELKVFDQDLVTGDDPVLSVLFDAAGTLRAGEFRRESFSLSPQGEGRLEVEFRLQSLADRGEWLVSNGVL
VARELSCLHVQLEETGDQKSSEHRVQLVVPGSCEGPQEASVGTGTFRFHCPACWEQELSIRLQDAPEEQLKAPLS
ALPSGQVVRVLFPTTSQEPLMRVELKKEAGLRELAVRLGFGPCAEEQAFLSRRKQVVAALRQALQLDGDLDQEDEI
PVVAIMATGGGIRAMTSLYGQLAGLKEGLLDVSYITGASGSTWALANLYEDPEWSQKDLAGPTELLKTQVTKN
KLGVLAPSQLQRYRQELAERARLGYPSCFTNLWALINEALLHDEPHDHKLSDQREALSHGQNPLPIYCALNTKGQ
SLTTFEFGEWCEFSPEYEVGFPHYGAFIPSEFGSEFFMGQLMKRLPESRICFLEGIWSNLYAANLQDSLYWASEP
SQFWRWRVNQANLDKEQVPLLKIEEPPSTAGRIAEFFTDLLTWRELAQATHNFLRGLHFHKDYFQHPHFSTWKA
TTLDGLPNQLTPSEPHLCLLDVGYLINTSCLPLLQPTRDVLILSLDYNLHGAFQQLQLLGRFCQEQGIPFPPIIS
PSPEEQLPRECHTFSDPTCPGAPAVLHFPLVSDSFREYSAPGVRRTPEEAAAGEVNLSSSDSPYHYTKVTYSQE
DVKLLHLTHYNVCNNQEQLLEALRQAVQRRRQRRPH

66/2682
FIGURE 61

CTTCGGGTGTACGTGCTCCGGGATCTTCAGCACCCGCGGCCCATCGCCGTCGCTTGGCTTCTTCTGGACTCAT
CTGCGCCACTTGTCCGCTTCACACTCCGCCGCCATCATGTTGAAGCTCGCGAAGGCAGGTAAAAATCAAGGTGAC
CCCAAGAAAATGGCTCCTCCTCCAAAGGAGGTAGAAGAAGATAGTGAAGATGAGGAAATGTCAGAAGATGAAGAA
GATGATAGCAGTGGAGAAGAGGTCGTACATACCTCAGAAGAAAGGCAAGAAGGCTGCTGCAACCTCAGCAAAGAAG
GTGGTCGTTTCCCCAACAAAAAGGTTGCAGTTGCCACACCAGCCAAGAAAGCAGCTGTCACTCCAGGCAAAAAAG
GCAGCAGCAACACCTGCCAAGAAGACAGTTACACCAGCCAAAGCAGTTACCACACCTGGCAAGAAGGGAGCCACA
CCAGGCAAAGCATTGGTAGCAACTCCTGGTAAGAAGGGTGCTGCCATCCCAGCCAAGGGGGCAAAGAAATGGCAAG
AATGCCAAGAAGGAAGACAGTGATGAAGAGGAGGATGATGACAGTGAGGAGGATGAGGAGGATGACGAGGACGAG
GATGAGGATGAAGATGAAATTGAACAGCAGCGATGAAAGCAGCAGCTGCTGCCCTGCCTCAGAGGATGAGGAC
GATGAGGATGACGAAGATGATGAGGATGACGATGAGGAAAGATGACTCTGAAGAAGAAGCTTGGAGACT
ACACCAGCCAAAGGAAAGAAAGCTGCAAAAGTTGTTCTGTGAAAGCCAAGAACGTGGCTGAGGATGAAGATGAA
GAAGAGGATGATGAGGACGAGGATGACGACGACGAAGATGATGAAGATGATGAAGATGATGAGGAG
GAGGAAGAAGAGGAGGAGGAAGAGCCTGTCAAAGAACGACCTGGGAAAACGAAAGAAAGGAAATGGCCAAACAGAAA
GCAGCTCCTGAAGCCAAGAAACAGAAAGTGGAAAGCACAGAACCAGCTACGGCTTTCAATCTCTTTGTGGAAAC
CTAAACTTTAACAATCTGCTCCTGAATTAATAAAGTGGTATCAGCGATGTTTTTGTGTAATAATGATCTTGCTGTT
GTGGATGTGAGAATTGGTATGACTAGGAAATTTGGTTATGTGGATTTTGAATCTGCTGAAGACCTGGAGAAAGCG
TTGGAACCTCACTGGTTTGAAGTCTTTGGCAATGAAATTAATACTAGAGAAACCAAGGAAAGACAGTAAGAAA
GAGCGAGATGCCGAGATCACTTTTGGCTAAAAATCTCCCTTACAAAGTCACTCAGGATGAATTGAAAGAAGTGT
GAAGATGCTGCGGAGATCAGATTAGTCAGCAAGGATGGGAAAAGTAAAGGGATTGCTTATATTGAATTTAAGACA
GAAGCTGATGCAGAGAAAACCTTTGAAGAAAAGCAGGGAACAGAGATCGATGGGCGATCTATTTCCCTGTACTAT
ACTGGAGAGAAAAGGTCAAAATCAAGACTATAGAGGTGGAAGAATAGCACTTGGAGTGGTGAATCAAAAACCTCTG
GTTTTAAGCAACCTCTCCTACAGTGCAACAGAAGAACTCTTCAGGAAGTATTTGAGAAAGCAACTTTTATCAAA
GTACCCCAAGAACCAAAATGGCAATCTAAAGGGTATGCATTTATAGAGTTTGCTTCATTGCAAGACGCTAAAGAA
GCTTTAATTCCTGTAAATAAAAGGGAAATTGAGGGCAGAGCAATCAGGCTGGAGTTGCAAGGACCCAGGGGATCA
CCTAATGCCAGAAGCCAGCCATCCAAAACCTCTGTTTGTCAAAGGCCGTGCTGAGGATACCACTGAAGAGACATTA
AAGGAGTCATTTGACGGCTCCGTTCCGGGCAAGGATAGTTACTGACCGGGAAACTGGGCTCCTCCAAAGGGTTTGGT
TTTGTAGACTTCAACAGTGAGGAGGATGCCAAGGAGGCCATGGAAGACGGTGAAATTGATGGAATAAAGTTACC
TTGGACTGGGCCAAACCTAAGGGTGAAGGTGGCTTCGGGGGTGCTGGTGGAGGCAGAGGCGGCTTTGGAGGACGA
GGTGGTGGTAGAGGAGGCCGAGGAGGATTTGGTGGCAGAGGCCGGGGAGGCTTTGGAGGGCAGGAGGCTTCCGA
GGAGGCAGAGGAGGAGGAGGTGACCACAAGCCACAAGGAAAGAAGACGAAGTTGAATAGCTTCTGTCCCTCTGC
TTTCCCTTTTCCATTTGAAAGAAAGGACTCTGGGGTTTTACTGTTACCTGATCAATGACAGAGCCTTCTGAGGA
CATTCCAAGACAGTATACAGTCCTGTGGTCTCCTTGGAATCCGTCTAGTTAACATTTCAAGGGCAATACCGTGT
TGGTTTTGACTGGATATTCATATAAACTTTTTAAAGAGTTGAGTGATAGAGCTAACCCCTATCTGTAAGTTTTGA
ATTTATATTGTTTCATCCCATGTACAAAACATTTTTTCTAC

MVKLAKAGKNQGDPPKKMAPPPKEVEEDSEDEEMSEDEEDSSGEEVVIPQKKGKKAATSAKKVVVSPTKKVAVA
TPAKKAAVTPGKKAAATPAKKTVTPAKAVTTTPGKKGATPGKALVATPGKKGAAIPAKGAKNGKNAKKEDSDEEED
DDSEDEEDEDDEDEDEDEIEPAAMKAAAAAPASEDEDEDDEDDEDDEDDDEEDDSEEEAMETTPAKGKKAHV
PVKAKNVAEDEEEEDDEDDEDDDDDEDDEDDDDDEEEEEEEEEEPVKEAPGKRKKEMAKQKAPEAKKQKVEG
TEPTTAFNLFVGNLNFNKSAPELKTGISDVFAKNDLAVDVDRIGMTRKFGYVDFESAEDLEKALELTGLKVFNE
IKLEKPKGKDSKKERDARTLLAKNLPLYKVTQDELKEVFEDAAEIRLVSKDGKSKGIAYIEFKTEADAektFEeKQ
GTEIDGRSISLYYTGEKGQNQDYRGGKNSTWSGESKTLVLSNLSYSATEETLQEVFEKATFIKVPQNQNGKSKGY
AFIEFASFEDAKEALNSCNKREIEGRAIRLELQGRGSPNARSQPSKTLFVKGLSEDTTTEETLKEsfDGsvRARI
VTDRETGSSKGFVFDFNSEEDAKEAMEDGEIDGNKVTILDWAKPKGEGGFGGRGGGRGGFGGRGGGRGGRGGGFGG
RGRGGFGGRGGFRGGRGGGGDHKPKQKKTKFE

68/2682
FIGURE 63

CTCCCAAAGCAGAATTGCAGCTGCCGCCGCCGCCACCTCCAGGCCACTATGGCGCCTGGGGCTGCCCAGGAGCTT
CAGGCCAAGTTGGCAGAGATCGGAGCTCCGATCCAGGTAATCGCGAGGAGCTGGTGGAGCGGCTGCAGAGCTAC
ACCCGCCAGACTGGCATCGTGCTGAATCGGCCGTTTGTAGAGGGGAAGATGGGGACAAAGCCGCTCCACCTCCC
ATGTCGGCACAGCTCCCTGGAATTCCCATGCCACCACCACTTTGGGACTCCCCCTCTGCAGCCTCCTCCGCCA
CCCCACCACCTCCACCAGGCCTTGGCCTTGGCTTTCTATGGCCCACCCACCAAAATTGGGGCCCCCGCCTCCT
CTCCGTGTGGGTGAGCCAGTGGCACTGTGAGAGGAGAGCGGCTGAAGTTGGCTCAGCAGCAGGCGGCATTGCTG
ATGCAGCAGGAGGAGCGTGCCAAGCAGCAGGGAGATCATTGCTGAAGGAACATGAGCTCTTGGAGCAGCAGAAG
CGGGCAGCTGTGTTACTGGAGCAGGAACGACAGCAGGAGATTGCCAAGATGGGCACCCAGTCCCTCGGCCCCCA
CAAGACATGGGCCAGATTGGTGTGCGCACTCCTCTGGGTCTCGAGTAGCTGCTCCAGTGGGCCCAGTGGGCCCC
ACTCTACAGTTTGGCCATGGGAGCCCCCTGTTCCCGGCCTCGTGGTCCCCCACCGCCCCCTGGAGATGAGAAC
AGAGAGATGGATGACCCCTCTGTGGGCCCCAAGATCCCCCAGGCTTTGGAGAAGATCCTGCAGCTGAAGGAGAGC
CGCCAGGAAGAGATGAATTCTCAGCAGGAGGAAGAGGAAATGGAACAGATGCTCGCTCGTCCCTGGGCCAGTCA
GCGTCAGAGACTGAGGAGGACACAGTGTCCGTATCTAAAAAGGAGAAAAACCGGAAGCGTAGGAACCGAAAGAAG
AAGAAAAAGCCCCAGCGGGTGCAGGGGTGTCTCTGAGAGCTCTGGGGACCGGGAGAAAGACTCAACCCGGTCC
CGTGGCTCTGATTCCCCAGCAGCTGATGTTGAGATTGAGTATGTGACTGAAGAACCTGAAATTTACGAGCCCAAC
TTTATCTTCTTTAAGAGGATCTTTGAGGCTTTTAAGCTCACTGATGATGTGAAGAAGGAGAAAGAGAAAGAGCCA
GAGAACTTGACAACTGGAGAACTCTGCAGCCCCCAAGAAGAAGGGATTGAAGAGGAGCACAAGGACAGTGTG
GATGACAGCAGTGTGACGAGCAGGAAAAGAAGCAGAAAGCCCCCAAGCTGTCCAAGAAGAAGTTGCGCCGAATG
AACCGCTTCACTGTGGCTGAACCTCAAGCAGCTGGTGGCTCGGCCCGATGTCGTGGAGATGCACGATGTGACAGCG
CAGGACCCCTAAGCTCTTGGTTACCTCAAGGCCACTCGGAACCTCTGTGCCTGTGCCACGCCACTTGGTGTTTTAAG
CGCAAATACCTCAGGGCAAACGGGGCATTGAGAAGCCCCCTTCGAGCTGCCAGACTTCATCAAAACGCACAGGC
ATCCAGGAGATGCGAGAGGCCCTGCAGGAGAAGGAAGAACAGAACCATGAAGTCAAAATGCGAGAGAAAGTT
CGGCCTAAGATGGGCAAAATTGACATCGACTACCAGAACTGCATGATGCCTTCTTCAAGTGGCAGACCAAGCCA
AAGCTGACCATCCATGGGGACCTGTACTATGAGGGGAAGGAGTTCGAGACACGACTGAAGGAGAAGAAGCCAGGA
GATCTGICTGATGAGCTAAGGATTTCTTGGGGATGCCAGTAGGACCAAATGCCACAAAGGTCCCTCCCCATGG
CTGATTGCCATGCAGCGATATGGACCACCCCATCGTATCCCAACCTGAAAATCCCTGGGCTGAACCTCGCCCATC
CCTGAGAGCTGTTCTTTGGGTACCATGCTGGTGGCTGGGGCAAACCTCCAGTGGATGAGACTGGGAAACCGCTC
TATGGGGACGTGTTTGAACCAATGCTGCTGAATTTAGACCAAGACTGAGGAAGAAGAGATTGATCGGACCCCT
TGGGGGGAACCTGGAACCATCTGATGAAGAATCCTCAGAAGAAGAGGAAGAGGAAGAAGTGAAGACAAACCA
GATGAGACAGGCTTTATTACCCCTGCAGACAGTGGCCTTATCACTCCTGGAGGCTTTTTCATCAGTGCCTGCTGGA
ATGGAGACCCCTGAACTCATTGAGCTGAGGAAGAAGAAGATTGAGGAGGCGATGGACGGAAGTGAGACACCTCAG
CTCTTCACTGTGTTGCCAGAGAAGAGAAGAGCCACTGTTGGAGGGGCCATGATGGGATCAACCCACATTTATGAC
ATGTCCACGGTTATGAGCCGGAAGGGCCCGGCTCCTGAGCTGCAAGGTGTGAAGTGGCGCTGGCGCCTGAAGAG
TTGGAGCTGGATCCTATGGCCATGACCCAGAAGTATGAGGAGCATGTGCGGGAGCAGCAGGCTCAAGTAGAGAAG
GAGGACTTCAGTGACATGGTGGCTGAGCACGCTGCCAAACAGAAGCAAAAAAACGGAAGCTCAGCCCCAGGAC
AGCCGTGGGGGAGCAAGAAATATAAGGAGTTCAAGTTTACGTTCCCTCACACTAGCCCTTTTTTGGCCCTAC
GTCTGGATGCCTGGGCTTACACAAGAACCACCTCTCCCGCAGTTCCCAAGGACTTGTCAATTCATGTTCTTATT
TTAGACCTGTTTTGTAAATAAAGCTGTTTCCCAAGGAAGAGATGAAAAAAAAAAAAAAAAAAAA

69/2682
FIGURE 64

MAPGAAQELQAKLAEIGAPIQGNREELVERLQSYTRQTGIVLNRPVLRGEDGDKAAPPMSAQLPGIPMPPPPLG
LPPLQPPPPPPPPGLGLGFPMHPPNLGPPPLRVGEPVALSEERLKLAAQQQAALLMQQEERAKQQGDHSLK
EHELLEQQKRAAVLLEQERQQEIAKMGTVPVRPPQDMGQIGVRTPLGPRVAAPVGPVGPTPTVLPMGAPVPRRG
PPPPPGDENREMDDPSVGPKIPQALEKILQLKESRQEEMNSQQEEEEEMETDARSSLGQSASETEEDTVSVSKKEK
NRKRRNRKKKKKPKQVRGVSSSESSGDREKDSTRSRGSDSPAADVEIEYVTEEPFIYEPNFIFFKRIFEAFKLTDD
VKKEKEKEPEKLDKLENSAAPKKKGFEHHKSDDDSSDDEQEKKEAPKLSKKKLRRMNRTVAELKQLVARPD
VVMHDVTAQDPKLLVHLKATRNSVPVPRHWCFFKRKYLQKRGIEKPPFELPDFIKRTGIQEMREALQEKEEQKT
MKSKMREKVRPKMGKIDIDYQKLHDAFFKWQTKPKLTIHGDLYYEGKEFETRLKEKKPGDLSDELRI SLGMPVGP
NAHKVPPPWLIAMQRYGPPPSYPNLKIPGLNSPIPESCSFGYHAGGWGKPPVDETGKPLYGDFVGTNAAEFQTKT
EEEEIDRTPWGELEPSDEESSEEEEEESDEDKPDETGFI TPADSGLITPGGFSSVPAGMETPELIELRKKKIEE
AMDGSETPQLFTVLPEKRTATVGGAMMGSTHIYDMSTVMSRKGAPELQGVVALAPEELELDPAMMTQKYEEHV
REQQAQVEKEDFSDMVAEHAAKQKQKKRKAQFQDSRGGSKKYKEFKF

70/2682
FIGURE 65

CGAAAAAGAGGGGAAGAGTATTAAAGACCATTTCTGGCTGGGCAGGGCACTCTCAGCAGCTCAACTGCCCAGCG
TGACCAGTGGCCACCTCTGCAGTGTCTTCCACAACCTGGTCTTGACTCGTCTGCTGAACAAATCCTCTGACCTCA
GGCCGGCTGTGAACGTAGTTCCTGAGAGATAGCAAACATGCCCAACAGTGAGCCCGCATCTCTGCTGGAGCTGTT
CAACAGCATCGCCACACAAGGGGAGCTCGTAAGGTCCCTCAAAGCGGGAAATGCGTCAAAGGATGAAATTGATT
TGCAGTAAAGATGTTGGTGTCAATTAATAATGAGCTACAAAGCTGCCGCGGGGAGGATTACAAGGCTGACTGTCC
TCCAGGGAACCCAGCACCTACCAGTAATCATGGCCAGATGCCACAGAAGCTGAAGAGGATTTTGTGGACCCATG
GACAGTACAGACAAGCAGTGCAAAAGGCATAGACTACGATAAGCTCATTGTTTCGGTTTGGAAAGTAGTAAATTTGA
CAAAGAGCTAATAAACCGAATAGAGAGAGCCACCGGCCAAAGACCACACCACTTCCTGCGCAGAGGCATCTTCTT
CTCACACAGAGATATGAATCAGGTTCTTGATGCCTATGAAAATAAGAAGCCATTTATCTGTACACGGGCCGGGG
CCCCCTTCTGAAGCAATGCATGTAGGTCACTCATTCCATTTATTTTACAAAGTGGCTCCAGGATGTATTTAA
CGTGCCCTTGGTCATCCAGATGACGGATGACGAGAAGTATCTGTGAAGGACCTGACCTTGGACCAGGCCTATGG
CGATGCTGTTGAGAAATGCCAAGGACATCATCGCTGTGGCTTTGACATCAACAAGACTTTCATATTCTCTGACCT
GGACTACATGGGGATGAGCTCAGGTTTCTACAAAATGTGGTGAAGATTCAAAGCATGTTACCTTCAACCÀAGT
GAAAGGCATTTTCGGCTTCACTGACAGCGACTGCATTGGGAAGATCAGTTTTCTGCCATCCAGGCTGCTCCCTC
CTTCAGCAACTCATTCCCACAGATCTTCCGAGACAGGACGGATATCCAGTGCCTTATCCCATGTGCCATTGACCA
GGATCCTTACTTTAGAATGACAAGGGACGTCGCCCCAGGATCGGCTATCCTAAACCAGCCCTGTTGCACTCCAC
CTTCTTCCCAGCCCTGCAGGGCGCCCÀGACCAAAATGAGTGCCAGCGACCCAAACTCCTCCATCTTCTCACCAG
CACGGCCAAGCAGATCAAACCAAGGTCAATAAGCATGCGTTTTCTGGAGGGAGAGACACCATCGAGGAGCACAG
GCAGTTTGGGGCAACTGTGATGTGGACGTGTCTTTCATGTACCTGACCTTCTTCTCGAGGACGACGACAAGCT
CGAGCAGATCAGGAAGGATTACACCAGCGGAGCCATGCTCACCAGTGAGCTCAAGAAGGCACTCATAGAGGTTCT
GCAGCCCTTGATCGCAGAGCACCAGGCCCGGCGCAAGGAGGTCACGGATGAGATAGTGAAGAGTTTCATGACTCC
CCGGAAGCTGTCTTCGACTTTCAGTAGCACTCGTTTTACATATGCTTATAAAAGAAGTGATGTATCAGTAATGT
ATCAATAATCCCAGCCCAGTCAAAGCACCGCCACCTGTAGGCTTCTGTCTCATGGTAATTACTGGGCCTGGCCTC
TGTAAGCCTGTGTATGTTATCAATACTGTTTCTTCTGTGAGTTCATTATTTCTATCTTATGGGCAAAGCAT
TGTGGGTAATTGGTGTGGCTAACATTGCAATGGTCGGATAGAGAAGTCCAGCTGTGAGTCTCTCCCCAAAGCAGC
CCCACAGTGGAGCCTTCGGCTGGAAGTCCATGGGCCACCTGTTCTTGTCCATGGAGGACTTCCGAGGGTTCCAA
GTATACTCTTAAGACCCACTCTGTTTAAAAATATATATTCTATGTATGCGTATATGGAATTGAAATGTCATTATT
GTAACCTAGAAAAGTGCTTTGAAATATTGATGTGGGAGGTTTATTGAGCACAAGATGTATTTAGCCCATGCCCC
CTCCCCAAAAGAAATTGATAAGTAAAAGCTTCGTTATACATTTGACTAAGAAATCACCAGCTTTAAAGCTGCTT
TTAACAATGAAGATTGAACAGAGTTCAGCAATTTTGATTAAATTAAGACTTGGGGGTGAAACTTTCCAGTTTACT
GAACTCCAGACCATGCATGTAGTCCACTCCAGAAATCATGCTCGCTTCCCTTGGCACACCAGTGTTCTCCTGCCA
AATGACCCTAGACCCTCTGTCTGCAGAGTCAGGGTGGCTTTTCCCTGACTGTGTCCGATGCCAAGGAGTCTTG
GCTCCGCAGATGCTTCATTTTGACCTTGGCTGCAGTGGAAGTCAGCACAGAGCAGTCCCTGGCTGTGTCTTG
GACGGGTGGACTTAGCTAGGGAGAAAGTCGAGGCAGCAGCCCTCGAGGCCCTCACAGATGTCTAGGCAGGCCTCA
TTTCATCACGCAGCATGTGCAGGCCTGGAAGAGCAAAGCCAAATCTCAGGGAAGTCCTTGGTTGATGTATCTGGG
TCTCCTCTGGAGCACTCTGCCCTCTGTACCCAGTAGAGTAAATAAACTTCTTGGCTCCTAAAAA

71/2682
FIGURE 66

MPNSEPASLLELFNSIATQGELVRSCLKAGNASKDEIDSAVKMLVSLKMSYKAAAGEDYKADCPPGNPAPTSNHGP
DATEAEEDFVDPWTVQTSSAKGIDYDKLIVRFGSSKIDKELINRIERATGQRPHHFLRRGIFFSHRDMNQVLDAY
ENKKPFYLYTGRGPSSEAMHVGHLPFIFTKWLQDVFNVPLVIQMTDDEKYLWKDLTLDQAYGDAVENAKDIIAC
GFDINKTFIFSDLDYMGMSGIFYKNVVKIQKHVTFNQVKGIFGFTDSDCIGKISFPQIAAPSFSNSFPQIFRDR
TDIQCLIPCAIDQDPYFRMTRDVAPRIGYPKALLHSTFFPALQGAQTKMSASDPNSSIFLTD TAKQIKTKVKNH
AFSGGRDTIEEHRQFGGNCVDVVSFMYLTFFLEDDDKLEQIRKDYTSGAMLTGELKKALIEVLQPLIAEHQARRK
EVTDEIVKEFMTPRKLSFDFQ

72/2682
FIGURE 67

GCGGAGCGTGTGAGCAGTACTGCGGCCTCCTCTCCTCTCCTAACCTCGCTCTCGCGGCCTACCTTTACCCGCCCG
CCTGCTCGGCGACCAGCGGGGATCCTCCCCAGCCGCAAGTCCACGAAGAAAGCAACGAATGAAAATTATGAAGA
CAACGAGAAGTCAGACTCCTCCGGGTCGCGCTCCAGCTGCTTCGGCTTCGTCGCCTACTCTGTGAAGTCCGGGGA
GAGATCTCGAGTCAAGATTAAGACCTTAACCCACCAACCTGCTTTCGGACACCCCCCGGGCCGGCCGCTGTCT
GTCCCCCTTCTCCATCGCCCTCTCCAGAAAGCTCCGGTGTCTGGACCAGCTAGAGTCTGAGAAAGAGGAGAGGCG
CGAACGCCACTCCAAAAAGAGAAGGGTTAAAGAGGGCAACCCTAACGATACGCTTGACTTTCTGTGGCTGGGAAC
ACCTTCCACCATGACCACCTCAGCAAGTTCCTCACTTAAATAAAGGCATCAAGCAGGTGTACATGTCCCTGCCTCA
GGGTGAGAAAGTCCAGGCCATGTATATCTGGATCGATGGTACTGGAGAAGGACTGCGCTGCAAGACCCGGACCCT
GGACAGTGAGCCCAAGTGTGTGGAAGAGTTGCCTGAGTGGAAATTCGATGGCTCCAGTACTTTACAGTCTGAGGG
TTCCAACAGTGACATGTATCTCGTGCCTGTGCCATGTTTCGGGACCCCTTCCGTAAGGACCTTAACAAGCTGGT
GTTATGTGAAGTTTTCAAGTACAATCGAAGGCCTGCAGAGACCAATTTGAGGCACACCTGTAAACGGATAATGGA
CATGGTGAGCAACCAGCACCCCTGGTTTGGCATGGAGCAGGAGTATACCCTCATGGGGACAGATGGGCACCCCTT
TGGTTGGCCTTCCAACGGCTTCCAGGGCCCCAGGGTCCATATTACTGTGGTGTGGGAGCAGACAGAGCCTATGG
CAGGGACATCGTGGAGGCCATTACCGGGCTGCTTGTATGCTGGAGTCAAGATTGCGGGGACTAATGCCGAGGT
CATGCCTGCCAGTGGGAATTCAGATTGGACCTTGTGAAGGAATCAGCATGGGAGATCATCTCTGGGTGGCCCCG
TTTCATCTGTCATCGTGTGTGTGAAGACTTTGGAGTGATAGCAACCTTTGATCCTAAGCCATTCTTGGGAAGT
GAATGGTGCAGGCTGCCATACCAACTTCAGCACCAAGGCCATGCGGGAGGAGAAATGGTCTGAAGTACATCGAGGA
GGCCATTGAGAACTAAGCAAGCGGCACCAAGTACCACATCCGTGCCTATGATCCCAAGGGAGGCCGTGGACAATGC
CCGACGTCTAACTGGATTCCATGAAACCTCCAACATCAACGACTTTTCTGCTGTTGTAGCCAATCGTAGCGCCAG
CATACGCATTCCCCGGACTGTTGGCCAGGAGAAGAAGGGTTACTTTGAAGATCGTCGCCCTCTGCCAACTGCGA
CCCCTTTTCGGTGACAGAAGCCCTCATCCGCACGTGTCTTCTCAATGAAACCGCGATGAGCCCTTCCAGTACAA
AAATTAAGTGGACTAGACCTCCAGCTGTTGAGCCCTCCTAGTTCTTCATCCCACTCCAACCTCTTCCCCCTCTCC
CAGTTGTCGCCGATTGTAACCTCAAAGGGTGGAAATCAAGGTCGTTTTTTTTCATTCCATGTGCCAGTTAATCTTG
CTTTCTTTGTTTGGCTGGGATAGAGGGGTCAAGTTATTAATTTCTTCACACCTACCCTCCTTTTTTTTCCCTATCA
CTGAAGCTTTTTTAGTGATTAGTGGGGAGGAGGGTGGGGAGACATAACCACTGCTTCCATTTAATGGGGTGCACC
TGTCCAATAGCGTAGCTATCCGGACAGAGCACGTTTGCAGAAGGGGGACTCTTCTTCCAGGTAGCTGAAAGGGG
AAGACCTGACGTACTCTGGTTAGGTTAGGACTTGCCCTCGTGGTGGAACCTTTTCTAAAAAGTTATAACCAACT
TTTCTATTAAAAAGTGGGAATTAGGAGAGAAGGTAGGGGTGGGAATCAGAGAGAATGGCTTTGGTCTCTTGCTTG
TGGGACTAGCCTGGCTTGGGACTAAATGCCCTGCTCTGAACACGAAGCTTAGTATAAACTGATGGATATCCCTAC
CTTGAAAGAAGAAAAGTTCTTACTGCTTGGTCTTGATTTATCACACAAAGCAGAATAGTATTTTTATATTTAA
ATGTAAAGACAAAAAACTATATGTATGGTTTTGTGGATTATGTGTGTTTTGCTAAAGGAAAAAACCATCCAGGTC
ACGGGGCACCAAATTTGAGACAAATAGTCGGATTAGAAATAAAGCATCTCATTTTGAGTAGAGAGCAAGGGAAGT
GGTTCTTAGATGGTGATCTGGGATTAGGCCCTCAAGACCCTTTTGGGTTTCTGCCCTGCCACCCTCTGGAGAAG
GTGGGCACCTGGATTAGTTAACAGACGACACGTTACTAGCAGTCACTTGATCTCCGTGGCTTTGGTTTAAAAGACA
CACTTGTCACATAGGTTTAGAGATAAGAGTTGGCTGTCAACTTGAGCATGTTACTGACAGAGGGGGTATTGGG
GTTATTTTCTGGTAGGAATAGCATGTCACTAAAGCAGGCCCTTTTGATATTAAATTTTTTAAAAAGCAAAATTATA
GAAGTTTAGATTTTAAATCAAATTTGTAGGGTTTCTAGGTAATTTTACAGAATTGCTTGTGTTGCTTCAACTGTCT
CCTACCTCTGCTCTTGGAGGAGATGGGGACAGGGCTGGAGTCAAAACACTTGTAATTTTGTATCTTGATGTCTTT
GTTAAGACTGCTGAAGAATTATTTTTTTCTTTTATAATAAGGAATAAACCCACCTTTATTCCTTCATTTCATC
TACCATTTTCTGGTTCTTGTGTTGGCTGTGGCAGGCCAGCTGTGGTTTTCTTTTGCCATGACAACCTCTAATTGC
CATGTACAGTATGTTCAAAGTCAAATAACTCCTCATTGTAAACAACTGTGTAAGTGGCCAAAGCAGCACTTATA
AATCAGCCTAACATAA

73/2682
FIGURE 68

MTTSASSHLNKGIKQVYMSLPQGEKVQAMYIWIDGTGEGLRCKTRTLDSEPKCVEELPEWNFDGSSTLQSEGSNS
DMYLVPAAMFRDPFRKDPNKLVLCEVFKYNRRPAETNLRHTCKRIMDMVSNQHPWFGMEQEYTLMGTDGHPFGWP
SNGFPGPQGPYYCGVGADRAYGRDIVEAHYRACLYAGVKIAGTNAEVMQAQWFEQIGPCEGISMGDHLWVARFIL
HRVCEDFGVIATFDPKPIPGNWNAGAGCHTNFSTKAMREENGLKYIEEAIEKLSKRHQYHIRAYDPKGGLDNARRL
TGFHETSNINDFSAGVANRSASIRIPRTVGQEKKGYPEDRRPSANCDPFSVTEALIRTCLLNETGDEPFQYKN

74/2682
FIGURE 69

TGCTGCAGCCGCTGCCGCCGATTCCGGATCTCATTGCCACGCGCCCCGACGACCGCCCGACGTGCATTCCCGAT
TCCTTTTGGTTCCAAGTCCAATATGGCAACTCTAAAGGATCAGCTGATTTATAATCTTCTAAAGGAAGAACAGAC
CCCCAGAATAAGATTACAGTTGTTGGGGTTGGTGCTGTTGGCATGGCCTGTGCCATCAGTATCTTAATGAAGGA
CTTGGCAGATGAAC TTGCTCTTGTTGATGTCATCGAAGACAAATTGAAGGGAGAGATGATGGATCTCCAACATGG
CAGCCTTTTCCTTAGAACACCAAAGATTGTCTCTGGCAAAGACTATAATGTAAC TGCAAAC TCCAAGCTGGTCAT
TATCACGGCTGGGGCACGTCAGCAAGAGGGAGAAAGCCGTCTTAATTTGGTCCAGCGTAACGTGAACATATTTAA
ATTCATCATTCCTAATGTTGTAAAATACAGCCCGAACTGCAAGTTGCTTATTGTTTCAAATCCAGTGGATATCTT
GACCTACGTGGCTTGGAAGATAAGTGGTTTTCCCAAAAACCGTGTTATTGGAAGTGGTTGCAATCTGGATT CAGC
CCGATTCCGTTACCTGATGGGGGAAAGGCTGGGAGTTCACCCATTAAGCTGTCATGGGTGGGTCCTTGGGGAACA
TGGAGATTCCAGTGTGCCCTGTATGGAGTGGAAATGAATGTTGCTGGTGTCTCTCTGAAGACTCTGCACCCAGATTT
AGGGACTGATAAAGATAAGGAACAGTGGAAAGAGGTT CACAAGCAGGTGGTTGAGAGTGCTTATGAGGTGATCAA
ACTCAAAGGCTACACATCC TGGGCTATTGGACTCTCTGTAGCAGATTTGGCAGAGAGTATAATGAAGAATCTTAG
GCGGGTGCACCCAGTTTCCACCATGATTAAGGGTCTTTACGGAAATAAAGGATGATGTCTTCCTTAGTGTTCTTG
CATTTTGGGACAGAAATGGAATCTCAGACCTTGTAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAA
GAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGT CATATCATTTCACTGT
CTAGGCTACAACAGGATTCTAGGTGGAGGTTGTGCATGTTGTCCTTTTATCTGATCTGTGATTAAAGCAGTAAT
ATTTTAAGATGGACTGGGAAAAACATCAACTCCTGAAGTTAGAAATAAGAATGGTTTGTA AAATCCACAGCTATA
TCCTGATGCTGGATGGTATTAATCTTGTGTAGTCTTCAACTGGTTAGTGTGAAATAGTTCTGCCACCTCTGACGC
ACCACTGCCAATGCTGTACGTACTGCATTTGCCCTTGAGCCAGGTGGATGTTTACCGTGTGTTATATAACTTCC
TGGCTCCTTCACTGAACATGCCTAGTCCAACATTTTTTCCAGTGAGTCACATCCTGGGATCCAGTGTATAAATC
CAATATCATGTCTTGTGCATAATTCTTCCAAGGATCTTATTTTGTGA ACTATATCAGTAGTGTACATTACCATA
TAATGTAAAAAGATCTACATACAAACAATGCAACCAACTATCCAAGTGTTATACCAACTAAAACCCCAATAAAC
CTTGAACAGTG

75/2682
FIGURE 70

MATLKDQLIYNLLKEEQTPQNKITVVGVGAVGMACAISILMKDLADELALVDVIEDKLKGEMMDLQHGSFLRTP
KIVSGKDYNVTANSKLVIITAGARQQEGESRLNLVQRNVNIFKFIIPNVVKYSPNCKLLIVSNPVDILTYVAWKI
SGFPKNRVIGSGCNLDSARFRYLMGERLGVHPLSCHGWVLGEHGDSSVPVWSGMNVAGVSLKTLHPDLGTDKDKE
QWKEVHKQVVESAYEVIKLGKGYTSWAIGLSVADLAESIMKNLRRVHPVSTMIKGLYGKDDVFLSVPCILGQNGI
SDLVKVTLTSEEEARLKKSADTLWGIQKELQF

76/2682
FIGURE 71

CCGCAGCGCCGGAGTCAAACGGTTCCCGGCCAGTCCCGTCTGCAGCAGTCTGCCTCCTCTTTCAACATGACAG
ATGCCGCTGTGTCCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGCAGCCATCTCCAAGACGGCGGTAGCGC
CCATCGAGCGGGTCAAGCTGCTGCTGCAGGTGCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAAAG
GCATTATAGACTGCGTGGTCCGTATTCCCAAGGAGCAGGGAGTTCTGTCCTTCTGGCGCGGTAACCTGGCCAATG
TCATCAGATACTTCCCCACCCAGGCTCTTAACCTTCGCCTTCAAAGATAAATACAAGCAGATCTTCCTGGGTGGTG
TGGACAAGAGAACCAGTTTTGGCGCTACTTTGCAGGGAATCTGGCATCGGGTGGTGCCGCAGGGGCCACATCCC
TGTGTTTTGTGTACCCTCTTGATTTTGCCCGTACCCGCTAGCAGCTGATGTGGGTAAAGCTGGAGCTGAAAGGG
AATTCCGAGGCCTCGGTGACTGCCTGGTTAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTTTA
ACGTGTCTGTGCAGGGTATTATCATCTACCGAGCCGCTACTTCGGTATCTATGACACTGCAAAGGGAATGCTTC
CGGATCCCAAGAACACTCACATCGTCATCAGCTGGATGATCGCACAGACTGTCACTGCTGTTGCCGGGTTGACTT
CCTATCCATTGACACCGTTCGCCGCCGCATGATGATGCAGTCAGGGCGCAAAGGAAGTGAATCATGTACACAG
GCACGCTTGACTGCTGGCGGAAGATTGCTCGTGATGAAGGAGGCAAAGCTTTTTTCAAGGGTGCATGGTCCAATG
TTCTCAGAGGCATGGGTGGTGCTTTTGTGCTTGTCTGTATGATGAAATCAAGAAGTACACATAAGTTATTTTCCT
AGGATTTTTCCCCCTGTGAACAGGCATGTTGTATTCTATAACACAATCTTGAGCATTCTTGACAGACTCCTGGCT
GTCAGTTTCTCAGTGGCAACTACTTTACTGGTTGAAAATGGGAAGCAATAATATTCATCTGACCAGTTTTTCCTCT
AAAGCCATTTCCATGATGATGATGATGGGACTCAATTGTATTTTTTATTTTCAGTCACTCCTGATAAATAACAAAT
TTGGAGAAATAAAAAATATCTAAAT

77/2682
FIGURE 72

MTDAAVSFAKDFLAGGVAAAI SKTAVAPIERVKLLLQVQHASKQITADKQYKGI IDCVVRI PKEQGVLSFWRGNL
ANVIRYFPTQALNFAFKDKYKQIFLGGVDKRTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADV GKAGA
EREFRLGDCLVKIYKSDGIKGLYQGFNVSVQGIIYRAAYFGIYDTAKGMLPDPKNTHIVISWMIAQTVTAVAG
LTSYPFDTVRRRMMMQSGRKGTDIMYTGTLDCWRKIARDEGGKAFFKGAWSNVLRGMGGA FVLVLYDEIKKYT

AGTATGTGTGGTTGGGGAATTCATGTGGAGGTCAGAGTGGGAAGCAGGTGTGAGAGGGTCCAGCAGAAGGAAACATAT
GGCTGCCAAAGTGTTTGAGTCCATTGGCAAGTTTGGCCTGGCCTTAGCTGTTGCAGGAGGCGTGGTGAACCTCTGC
CTTATATAATGTGGATGCTGGGCACAGAGCTGTCTATCTTTGACCGATTCCGTGGAGTGCAGGACATTGTGGTAGG
GGAAGGGACTCATTTTCTCATCCCGTGGGTACAGAAACCAATTATCTTTGACTGCCGTTCTCGACCACGTAATGT
GCCAGTCATCACTGGTAGCAAAGATTACAGAATGTCAACATCACACTGCGCATCCTCTTCCGGCCTGTGCGCAC
CCAGCTTCTCTCGCATCTTCACCAGCATCGGAGAGGACTATGATGAGCGTGTGCTGCCGTCCATCACAACTGAGAT
CCTCAAGTCAGTGGTGGCTCGCTTTGATGCTGGAGAATAATCACCAGAGAGAGCTGGTCTCCAGGCAGGTGAG
CGACGACCTTACAGAGCGAGCCGCCACCTTTGGGCTCATCTGGATGACGTGTCTTTGACACATCTGACCTTCGG
GAAGGAGTTACAGAAGCGGTGGAAGCCAAACAGGTGGCTCAGCAGGAAGCAGAGAGGGCCAGATTGTGGTGGGA
AAAGGCTGAGCAACAGAAAAAGGCGGCCATCATCTCTGCTGAGGGCGACTCCAAGGCAGCTGAGCTGATTGCCAA
CTCACTGGCCACTGCAGGGGATGGCCTGATCGAGCTGCGCAAGCTGGAAGCTGCAGAGGACATCCGCTACCAGCT
CTCACGCTCTCGGAACATCACCTACCTGCCAGCGGGGCAGTCCGTGCTCCTCCAGCTGCCCCAGTGAAGGGCCCCAC
CCTGCCTGCACCTCCGCGGGCTGACTGGGCCACAGCCCCGATGATTCTTAACACAGCCTTCTCTCTGCTCCCACC
CCAGAAATCACTGTGAAATTTTCATGATTGGCTTAAAGTGAAGGAAATAAAGGTAAAATCACTTCAGATCTCTAAT
TAGTCTATCAAAATGAAACTCTTTTCATTCTTCTCACATCCATCTACTTTTTTATCCACCTCCCTACCAAAAATTGC
CAAGTGCCATATGCAAACCAGCTTTAGGTCCCAATTCCGGGGCCTGCTGGAGTTCGGGCCTGGGCACCAGCATTG
CAGCACGCAGGCGGGGCAGTATGTGATGGACTGGGGAGCACAGGTGTCTGCCCTAGATCCACGTGTGGCCTCCGTC
CTGTCACTGATGGAAGGTTTGCGGATGAGGGCATGTGCGGCTGAACCTGAGAAGGCAGGCCTCCGTCTTCCCAGCG
GTTCTCTGTGCAGATGCTGCTGAAGAGAGGTGCCGGGGAGGGGCAGAGAGGAAGTGGTCTGTCTGTTACCATAAGT
CTGATTCTCTTTAACTGTGTGACCAGCGGAAACAGGTGTGTGTGAACCTGGGCACAGATTGAAGAACTGCCCCGT
TTGAGGTGGGTGGGCCTGACTGTTGCCCCCAGGGTCTCTAAACTTGGATGGACTGTATAGTGAGAGAGGAGGC
CTGGACCGAGATGTGAGTCTGTTGAAGACTTCTCTCTACCCCCACCTTGGTCCCTCTCAGATACCCAGGTGGA
ATTCCAACCTGAAGGATTGCATCTCTGCGGCTGAACATGCTGCCAAAGACGTGTCGACCTACGTTCTCTGGC
CCCCTCGTTCAAGAGATGCCCTTCTCACGGGCTCTATGCCTGCACTGGGAAGGAAACAAATGTGTATAAACTGCT
GTCAATAAAATGACACCCAGACCTTCC

79/2682
FIGURE 74

MAAKVFESIGKFG LALAVAGGVVNSALYNVDAGHRAVIFDRFRGVQDIVVGEGTHFLIPWVQKPIIFDCRSRPRN
VPVITGSKDLQNVNITLRILFRPVASQLPRIFTSIGEDYDERVLPSITTEILKSVVARFDAGELITQRELVSRQV
SDDLTERAATFGLILDDVSLTHLTFGKEFTEAVEAKQVAQQEAERARFVVEKAEQQKAAIISAEGDSKAAELIA
NSLATAGDGLIELRKLEAAEDIAYQLSRSRNITYLPAGQSVLLQLPQ

80/2682
FIGURE 75

GGCACGAGGGGAGCGCTTGTGCTGCTCGTACTCCTCCATTTATCCGCCATGATAAGTGCCAGCCGAGCTGCA
GCAGCCCGTCTCGTGGGCGCCGAGCCTCCCGGGGCCCTACGGCCGCCGCCACCAGGATAGCTGGAATGGCCTT
AGTCATGAGGCTTTTAGACTTGTTCAGGCGGGATTATGCATCAGAAGCAATCAAGGGAGCAGTTGTTGGTATT
GATTTGGGTACTACCAACTCCTGCGTGGCAGTTATGGAAGGTAAACGAGCAAAGGTGCTGGAGAATGCCGAAGGT
GCCAGAACCACCCCTTCAGTTGTGGCCTTTACAGCAGATGGTGAGCGACTTGTGGAATGCCGGCCAAGCGACAG
GCTGTACCAACCCAAACAATACATTTTATGCTACCAAGCGTCTCATTGGCCGGCGATATGATGATCCTGAAGTA
CAGAAAGACATTAAAAATGTTCCCTTTAAAAATGTCCGTGCTCCAATGGTGATGCTGGGTTGAGGCTCATGGG
AAATTGTATTCTCCGAGTCAGATTGGAGCATTGTGTTGATGAAGATGAAAGAGACTGCAGAAAATTACTTGGGG
CGCACAGCAAAAAATGTGTGATCAGATCCCAGCTTATTTCAATGACTCGCAGAGACAGGCCACTAAAGATGCT
GGCCAGATATCTGGACTGAATGTGCTTCGGGTGATTAATGAGCCCACAGCTGCTGCTCTTGCTATGGTCTAGAC
AAATCAGAAGACAAAGTCATTGCTGTATATGATTTAGGTGGTGAACCTTTTGATATTTCTATCCTGGAATTCAG
AAAGGAGTATTTGAGGTGAAAICCAAAATGGGGATACCTTCTTAGGTGGGGAAGACTTTGACCAGGCCTTGCTA
CGGCACATTGTGAAGGAGTTCAAGAGAGAGACAGGGGTTGATTGACTAAAGACAACATGGCACTTCAGAGGGTA
CGGGAAGCTGCTGAAAAGGCTAAGTGTGAACCTCTCTCATCTGTGCAGACTGACATCAATTTGCCCTATCTTACA
ATGGATTCTTCTGGACCCAAGCATTGAAATATGAAGTTGACCCGTGCTCAATTTGAAGGGATTGCACTGATCTA
ATCAGAAGGACTATCGCTCCATGCCAAAAAGCTATGCAAGATGCAGAAGTCAGCAAGAGTGACATAGGAGAAGTG
ATTCTTGTGGGTGGCATGACTAGGATGCCAAGGTTGAGCAGACTGTACAGGATCTTTTGGCAGAGCCCCAAGT
AAAGCTGTCAATCCTGATGAGGCTGTGGCCATTGGAGCTGCCATTGAGGGAGGTGTGTTGGCCGGCGATGTACG
GATGTGCTGCTCCTTGATGTCACTCCCTGTCTCTGGGTATTGAACTCTAGGAGGTGTCTTTACCAAACCTTATT
AATAGGAATACCACTATTCCAACCAAGAAGAGCCAGGTATTCTCTACTGCCGCTGATGGTCAAACGCAAGTGGA
ATTAAAGTGTGTCAGGGTGAAAGAGAGATGGCTGGAGACAACAACTCCTTGGACAGTTTACTTTGATTGGAATT
CCACCAGCCCTCGTGGAGTTCCTCAGATTGAAGTTACATTTGACATTGATGCCAATGGGATAGTACATGTTTCT
GCTAAAGATAAAGGCACAGGACGTGAGCAGCAGATTGTAATCCAGTCTTCTGGTGGATTAAGCAAAGATGATATT
GAAAATATGGTTAAAAATGCAGAGAAATATGCTGAAGAAGACCGGCGAAAGAAGGAACGAGTTGAAGCAGTTAAT
ATGGCTGAAGGAATCATTACGACACAGAAACCAAGATGGAAGAATTCAAGGACCAATTACCTGCTGATGAGTGC
AACAAGCTGAAAGAAGAGATTTCCAAAATGAGGGAGCTCCTGGCTAGAAAAGACAGCGAAACAGGAGAAAATATT
AGACAGGCAGCATCCTCTCTTCAGCAGGCATCATTGAAGCTGTTGAAATGGCATACAAAAAGATGGCATCTGAG
CGAGAAGGCTCTGGAAGTTCTGGCACTGGGGAACAAAAGGAAGATCAAAAGGAGGAAAAACAGTAATAATAGCAG
AAATTTTGAAGCCAGAAGGACAACATATGAAGCTTAGGAGTGAAGAGACTTCTGAGCAGAAATGGCGAAGCTTC
AGTCTTTTTACTGTGTTTTTGCAGTATTCTATATATAATTTCTTAATTTGTAAATTTAGTGACCATTAGCTAGT
GATCATTTAATGGACAGTGATTCTAACAGTATAAAGTTCACAATATTCTATGTCCCTAGCCTGTCAATTTTCAGC
TGCATGTAAAGGAGGTAGGATGAATTGATCATTATAAAGATTTAACTATTTTATGCTGAAGTGACCATATTTTC
AAGGGGTGAAACCATCTCGCACACAGCAATGAAGGTAGTCATCCATAGACTTGAAATGAGACCACATATGGGGAT
GAGATCCTTCTAGTTAGCCTAGTACTGCTGTACTGGCCTGTATGTACATGGGGTCTTCAACTGAGGCCTTGCAA
GTCAAGCTGGCTGTGCCATGTTTGTAGATGGGGCAGAGGAATCTAGAACAATGGGAACTTAGCTATTTATATTA
GGTACAGCTATTAACAAGGTAGGAATGAGGCTAGACCTTTAACTTCCCTAAGGCATACTTTTCTAGCTACCTT
CTGCCCTGTGTCTGGCACCTACATCCTTGATGATTGTCTCTTACCCATTCTGGAATTTTTTTTTTTTTTAAATA
AATACAGAAAGCATCTTGAAAAA

81/2682
FIGURE 76

MISASRAAAARLVGAAASRGPTAARHQDSWNGLSHEAFRLVSRRDYASEAIKGAVVGIDLGTNSCVAVMEGKRA
KVLENAEGARTTPSVVAFTADGERLVGMPAKRQAVTNPNNTFYATKRLIGRRYDDPEVQKDIKNVPFKIVRASNG
DAWVEAHGKLYSPSQIGAFVLMKMKETAENYLGR TAKNAVITVPAYFNDSQRQATKDAGQISGLNVLRVINEPTA
AALAYGLDKSEDKVIADVYDLGGGTFDISILEIQKGVFEVKSTNGDTFLGGEDFDQALLRHIVKEFKRETGVDLTK
DNMALQVRVREAAEKAKCELSSSVQTDINLPYLTMDSSGPKHLNMKLTRAQFEGIVTDLIRRTIAPCQKAMQDAEV
SKSDIGEVLVGGMTRMPKVQQTVDLFGRA PSKAVNPDEAVAIGAAIQGGVLAGDVTDVLLLDVTPLSLGIETL
GGVFTKLINRNTTIPTKKSQVFSTAADGQTQVEIKVCQGEREMAGDNKLLGQFTLIGIPPAPRGVPQIEVTFDID
ANGIVHVS AKDKGTGREQQIVIQSSGGLSKDDIENMVKNAEKYAEEDRRKKERVEAVNMAEGIIHDTETKMEEFK
DQLPADECNKLKEEISKMRELLARKDSETGENIRQAASSLQQASLKL FEMAYKKMASEREGSGSSGTGEQKEDQK
EEKQ

82/2682
FIGURE 77

GGCACGAGGGGAGCGCTTGTGCTGCCTCGTACTCCTCCATTATCCGCCATGATAAGTGCCAGCCGAGCTGCA
GCAGCCCGTCTCGTGGGCGCCGAGCCTCCCGGGGCCCTACGGCCGCCGCCACCAGGATAGCTGGAATGGCCTT
AGTCATGAGGCTTTTAGACTTGTTC AAGGCGGGATTATGCATCAGAAGCAATCAAGGGAGCAGTTGTTGGTATT
GATTTGGGTACTACCAACTCCTGCGTGGCAGTTATGGAAGGTAAACGAGCAAAGGTGCTGGAGAATGCCGAAGGT
GCCAGAACCACCCCTTCAGTTGTGGCCCTTTACAGCAGATGGTGAGCGACTTGTGGAATGCCGGCCAAGCGACAG
GCTGTACCAACCCAAACAATACATTTTATGCTACCAAGCGTCTCATTGGCCGGCGATATGATGATCCTGAAGTA
CAGAAAGACATTAAAAATGTCCCTTTAAAAATGTCCGTGCCTCCAATGGTGATGCCTGGGTTGAGGCTCATGGG
AAATTGTATTCTCCGAGTCAGATTGGAGCATTGTGTTGATGAAGATGAAAGAGACTGCAGAAAAATTACTTGGGG
CGCACAGCAAAAAATGCTGTGATCACAGTCCCAGCTTATTTCAATGACTCGCAGAGACAGGCCACTAAAGATGCT
GGCCAGATATCTGGACTGAATGTGCTTCGGGTGATTAATGAGCCACAGCTGCTGCTCTTGCCTATGGTCTAGAC
AAATCAGAAGACAAAGTCATTGCTGTATATGATTTAGGTGGTGGAACCTTTTGATATTTCTATCCTGGAATTTCAG
AAAGGAGTATTGAGGTGAAATCCACAAATGGGGATACCTTCTTAGGTGGGGAAGACTTTGACCAGGCCCTTGCTA
CGGCACATTGTGAAGGAGTTCAAGAGAGAGACAGGGGTTGATTGACTAAAGACAACATGGCATTTCAGAGGGTA
CGGGAAGCTGCTGAAAAGGCTAAGTGTGAACCTCTCTCATCTGTGCAGACTGACATCAATTTGCCCTATCTTACA
ATGGATTCTTCTGGACCCAAGCATTGTAATATGAAGTTGACCCGTGCTCAATTTGAAGGGATGTCACTGACTACTA
ATCAGAAGGACTATCGCTCCATGCCAAAAAGCTATGCAAGATGCGAAGTCAGCAAGAGTGACATAGGAGAAGTG
ATTCTTGTGGGTGGCATGACTAGGATGCCCAAGGTTGAGCAGACTGTACAGGATCTTTTGGCAGAGCCCCAAGT
AAAGCTGTCAATCCTGATGAGGCTGTGGCCATTGGAGCTGCCATTGAGGAGGTGTGTTGGCCGGCGATGTACAG
GATGTGCTGCTCCTTGATGTCACTCCCCTGTCTCTGGGTATTGAACTCTAGGAGGTGTCTTTACCAAACCTTATT
AATAGGATAACCACTATTCCAACCAAGAAGGCCAGGTATTCTCTACTGCCGCTGATGGTCAAACGCAAGTGGA
ATTAAAGTGTGTCAGGGTGAAAGAGAGATGGCTGGAGACAACAACTCCTTGGACAGTTTACTTTGATTGGAATT
CCACCAGCCCTCGTGGAGTTCTCAGATTGAAGTTACATTTGACATTGATGCCAATGGGATAGTACATGTTTCT
GCTAAAGATAAAGGCACAGGACGTGAGCAGCAGATTGTAATCCAGTCTTCTGGTGGATTAAGCAAAGATGATATT
GAAAAATATGGTTAAAAATGCAGAGAAATATGCTGAAGAAGACC GCGGAAAGAAGGAACGAGTTGAAGCAGTTAAT
ATGGCTGAAGGAATCATTACGACACAGAAACCAAGATGGAAGAATTCAAGGACCAATTACCTGCTGATGAGTGC
AACAAGCTGAAAGAAGAGATTTCCAAAATGAGGGAGCTCCTGGCTAGAAAAGACAGCGAAACAGGAGAAAAATATT
AGACAGGCAGCATCCTCTCTTCAGCAGGCATCATTGAAGCTGTTGGAATGGCATACAAAAAGATGGCATCTGAG
CGAGAAGGCTCTGGAAGTTCTGGCACTGGGGAACAAAAGGAAGATCAAAAGGAGGAAAAACAGTAATAATAGCAG
AAATTTTGAAGCCAGAAGGACAACATATGAAGCTTAGGAGTGAAGAGACTTCCTGAGCAGAAATGGGCGAACTTC
AGTCTTTTTACTGTGTTTTTGCAGTATTCTATATATAATTTCTTAAATTTGTAAATTTAGTGACCATTAGCTAGT
GATCATTTAATGGACAGTGATTCTAACAGTATAAAGTTCACAATATTCTATGTCCCTAGCCTGTCAATTTTCAGC
TGCAATGTAAGGAGGAGTAGGATGAATTGATCATTATAAAGATTTAACTATTTTATGCTGAAGTGACCATATTTTC
AAGGGGTGAAACCATCTCGCACACAGCAATGAAGGTAGTCATCCATAGACTTGAAATGAGACCACATATGGGGAT
GAGATCCTTCTAGTTAGCCTAGTACTGCTGTACTGGCCTGTATGTACATGGGGTCTTCAACTGAGGCCTTGCAA
GTCAAGCTGGCTGTGCCATGTTTGTAGATGGGGCAGAGGAATCTAGAACAATGGGAACTTAGCTATTTATATTA
GGTACAGCTATTAAAAACAAGGTAGGAATGAGGCTAGACCTTTAACTCCCTAAGGCATACTTTTCTAGCTACCTT
CTGCCCTGTGCTGGCACCTACATCCTTGATGATTGTCTCTTACCCATTCTGGAATTTTTTTTTTTTTTAAATA
AATACAGAAAGCATCTTGAAAAA

83/2682
FIGURE 78

MISASRAAAARLVGAAASRGPTAARHQDSWNGLSHEAFRLVSRDYASEAIKGAVVGIDLGTNSCVAVMEGKRA
KVLNAEGARTTPSVVAFADGERLVGMPAKRQAVTNPNNTFYATKRLIGRRYDDPEVQKDIKNVFPKIVRASNG
DAWVEAHGKLYSPSQIGAFVLMKMKETAENYLGRATAKNAVITVPAYFNDSQRQATKDAGQISGLNVLRVINEPTA
AALAYGLDKSEDKVIAYVDLGGGTDFDISILEIQKGVFEVKSTNGDTFLGGEDFDQALLRHIVKEFKRETGVDLTK
DNMALQRVREAAEKAKCELSSSVQTDINLPYLTMDSSGPKHLNMKLTRAQFEGIVTDLIRRTIAPCQKAMQDAEV
SKSDIGEVIIVGGMTRMPKVQQTVDLFGRAVSKAVNPDEAVAIGAAIQGGVLAGDVTDVLLLDVTPLSLGIETL
GGVFTKLINRNTTIPTKKSQVFSTAADGQTQVEIKVCQGEREMAGDNKLLGQFTLIGIPPAPRGVPQIEVTFDID
ANGIVHVSADKGTGREQQIVIQSSGGLSKDDIENMVKNAEKYAEEDRRKKERVEAVNMAEGIIHDTETKMEEFK
DQLPADECNKLKEEISKMRELLARKDSETGENIRQAASSLQASLKLFEYAKKMASEREKSGSSGTGEQKEDQK
EEKQ

84/2682
FIGURE 79

GTGGTGGGACTCGCGTCGCGGCCGCGGAGACGTGAAGCTCTCGAGGCTCCTCCCGCTGCGGGTCGGCGCTCGCCC
TCGCTCTCCTCGCCCTCCGCCCCGGCCCCGGCCCCGGCGCCCGCCATGGAGAAGACTGAGCTGATCCAGAAGGCCA
AGCTGGCCGAGCAGGCCGAGCGCTACGACGACATGGCCACCTGCATGAAGGCAGTGACCGAGCAGGGCGCCGAGC
TGTCCAACGAGGAGCGCAACCTGCTCTCCGTGGCCTACAAGAAGCTGGTCGGGGGCCGAGGTCCGCCTGGAGGG
TCATCTCTAGCATCGAGCAGAAGACCGACACCTCCGACAAGAAGTTGCAGCTGATTAAGGACTATCGGGAGAAAG
TGGAGTCCGAGCTGAGATCCATCTGCACCACGGTGCTGGAATTGTTGGATAAAATATTTAATAGCCAATGCAACTA
ATCCAGAGAGTAAGGTCTTCTATCTGAAAATGAAGGGTGATTACTTCCGGTACCTTGCTGAAGTTGCGTGTGGTG
ATGATCGAAAACAAACGATAGATAATTCCCAAGGAGCTTACCAAGAGGCATTTGATATAAGCAAGAAAGAGATGC
AACCACACACCCAATCCGCCTGGGGCTTGCTCTTAACCTTTTCTGTATTTTACTATGAGATTCTTAATAACCCAG
AGCTTGCCCTGCACGCTGGCTAAAACGGCTTTTGATGAGGCCATTGCTGAACCTTGATACACTGAAGACTCAT
ACAAAGACAGCACCCCTCATCATGCAGTTGCTTAGAGACAACCTAACACTTTGGACATCAGACAGTGCAGGAGAAG
AATGTGATGCGGCAGAAGGGGCTGAAAAC~~TAAAT~~TCCATACAGGGTGTCATCCTTCTTTCCTTCAAGAAACCTTTT
TACACATCTCCATTCTTTATCCACTTGGATTTCCTATAGCAAAGAAACCCATTTCATGTGTATGGAATCAACTGT
TTATAGTCTTTTCACACTGCAGCTTTGGGAAAACCTTCATTCCCTTGATTGTGTTGTCTTGGCCTTCCTGGTGTG
CAGTACTGCTGTAGAAAAGTATTAATAGCTTCATTTCATATAAACATAAGTAACTCCCAAACACTTATGTAGAGG
ACTAAAAATGTATCTGGTATTTAAGTAATCTGAACCACTTCTGCAAGTGACTGTGTTTTGTATTACTGTGAAAAT
AAGAAAATGTAGTTAATTACAATTTAAAGAGTATTCACATAACTTCTTAATTTCTACATTCCCTCCCTTACTCT
TCGGGGGTTTCCTTTTCAGTAAGCAACTTTTCCATGCTCTTAATGTATTCTTTTCTTTTAGTAGGAATCCGGAAGTATT
AGATTGAATGGAAAAGCACTTGCCATCTCTGTCTAGGGGTCACAAATTGAAATGGCTCCTGTATCACATACGGAG
GTCTTGTGTATCTGTGGCAACAGGGAGTTTCCTTATCACTCTTTATTTGCTGCTGTTAAGTTGCCAACCTCCC
CTCCCAATAAAAAATTCACCTTACACCTCCTGCCTTTGTAGTTCTGGTATTCACTTTACTATGTGATAGAGTAGCA
TGTTGCTGCCAGAATACAAGCATTGCTTTTGGCAAATTAAGTGCATGTCATTTCTTAATACACTAGAAAGGGGA
AATAAATTAAAGTACACAAGTCCAAGTCTAAACTTTAGTACTTTTCCATGCAGATTGTGTCACATGTGAGAGGG
TGTCCAGTTTGTCTAGTGATTGTTATTTAGAGAGTTGGACCACTATTGTGTGTTGCTAATCATTGACTGTAGTCC
CAAAAAAGCCTTGTGAAAATGTTATGCCCTATGTAACAGCAGAGTAACATAAAATAAAAGTACATTTTATAAACC
ATTTACTATGGCTTTGTAAACAATTGCATACCCATATTTTAAAGGGACAGGTGAATTTACTACTTTCTAAAGTTTAT
TGATACTTCCCTTTTATGTAAAATGTAGTAGTGATACCTATATTTCCACATTGTGCATTGTGACACACTTGTCTA
GGGATGCCTGGAAGTGATAAAATTGGACTGCATTTCTTAGAGTGTTTTACTATAGATCAGTCTCATGGGCCATC
CTTCTCAGATGTAAATGATATCTGGTTAAGTGTTATATGGAATAAAGTGGACATTTTAAAACTA

85/2682
FIGURE 80

MEKTELIQKAKLAEQAERYDDMATCMKAVTEQGAELSNEERNLLSVAYKNVVGRRSAWRVISSIEQKTDTSDDK
LQLIKDYREKVESELRSICTTVLELLDKYLIANATNPESKVFYLMKGDYFRYLAEVACGDDRKTIDNSQGAYQ
EAFDISKKEMQPTHPIRLGLALNFSVFYYEILNNPELACTLAKTAFDEAIAELDTLNEDSYKDSTLIMQLLRDNL
TLWTSDSAGEECDAAEGAEN

86/2682

FIGURE 81

AGCGCACGTCGGCAGTCGGCTCCCTCGTTGACCGAATCACCGACCTCTCTCCCCAGCTGTATTTCAAAATGTCG
CTTTCTAACAAGCTGACGCTGGACAAGCTGGACGTTAAAGGGAAGCGGGTCGTTATGAGAGTCGACTTCAATGTT
CCTATGAAGAACAACCAGATAACAAACAACCAGAGGATTAAGGCTGCTGTCCCAAGCATCAAATTCTGCTTGGAC
AATGGAGCCAAGTCGGTAGTCCTTATGAGCCACCTAGGCCGGCCTGATGGTGTGCCCCATGCCTGACAAGTACTCC
TTAGAGCCAGTTGCTGTAGAACTCAAATCTCTGCTGGGCAAGGATGTTCTGTCTTTGAAGGACTGTGTAGGCCCA
GAAGTGGAGAAAGCCTGTGCCAACCCAGCTGCTGGGCTCTGTCATCCTGCTGGAGAACCTCCGCTTTTCATGTGGAG
GAAGAAGGGAAGGGAAGATGCTTCTGGGAACAAGGTTAAAGCCGAGCCAGCCAAAATAGAAGCTTTCCGAGCT
TCACTTTCCAAGCTAGGGGATGTCTATGTCAATGATGCTTTTGGCACTGCTCACAGAGCCACAGCTCCATGGTA
GGAGTCAATCTGCCACAGAAGGCTGGTGGGTTTTTGATGAAGAAGGAGCTGAACTACTTTGCAAAGGCCTTGGAG
AGCCCAGAGCGACCCCTTCTGGCCATCCTGGGCGGAGCTAAAGTTGCAGACAAGATCCAGCTCATCAATAATATG
CTGGACAAAGTCAATGAGATGATTATTGGTGGTGGAATGGCTTTTACCTTCCTTAAGGTGCTCAACAACATGGAG
ATTGGCACTTCTCTGTTTGATGAAGAGGGAGCCAAGATTGTCAAAGACCTAATGTCCAAAGCTGAGAAGAATGGT
GTGAAGATTACCTTGCCCTGTGACTTTGTCACTGCTGACAAAGTTTGATGAGAATGCCAAGACTGGCCAAGCCACT
GTGGCTTCTGGCATACTGCTGGCTGGATGGGCTTGGACTGTGGTCTGAAAGCAGCAAGAAGTATGCTGAGGCT
GTCACCTCGGGCTAAGCAGATTGTGTGGAATGGTCTGTGGGGGTATTTGAATGGGAAGCTTTTGGCCGGGAACC
AAAGCTCTCATGGATGAGGTGGTGAAAGCCACTTCTAGGGGCTGCATCACCATCATAGGTGGGAGACTGCC
ACTTGCTGTGCCAAATGGAACACGGAGGATAAAGTCAGCCATGTGAGCACTGGGGGTGGTGCCAGTTTGGAGCTC
CTGGAAGGTAAAGTCCTTCTGGGGTGGATGCTCTCAGCAATATTTAGTACTTTCCTGCCTTTTAGTTTCTGTGC
ACAGCCCTAAGTCAACTTAGCATTCTCTGCATCTCCACTTGGCATTAGCTAAAACCTTCCATGTCAAGATTGAG
CTAGTGGCCAAGAGATGCAGTGCCAGGAACCTTAAACAGTTGCACAGCATCTCAGCTCATCTTCACTGCACCCT
GGATTTGCATACATTCTTCAAGATCCCATTGAAATTTTTTAGTGACTAAACCATGTGCATTCTAGAGTGCATAT
ATTTATATTTTGCCTGTTAAAAAGAAAGTGAGCAGTGTTAGCTTAGTTCTCTTTTGATGTAGGTTATTATGATTA
GCTTTGTCAGTGTCTTCACTACTCAGCATGGAAACAAGATGAAATTCATTGTTAGGTAGTGAGACAAAATTGATG
ATCCATTAAAGTAAACAATAAAGTGTCATTGAAACCGTGATTTTTTTTTTTTCTGTACACTTTGTTAGGAA
GGGTGAGAATAGAATCTTGAGGAACGGATCAGATGTCTATATTGCTGAATGCAAGAAGTGGGGCAGCAGCAGTGG
AGAGATGGGACAATTAGATAAATGTCCATTCTTTATCAAGGGCCTACTTTATGGCAGACATTGTGCTAGTGCTTT
TATTTCTAACTTTTATTTTTATCAGTTACACATGATCATAATTTAAAAAGTCAAGGCTTATAACAAAAAGCCCCA
GCCATTCTCCCATTCAGATTCCCACTCCCCAGAGGTGACCCTTTCACTCTTGAGTTTTTCAGGTATATAC
CTCCATGTTTCTAAGTAATATGCTTATATTGTTCACTTCTTTTTTTTTTTTTTTTTTAAAGAAATCTATTTATAC
CATGGAGGAAGGCTCTGTTCCACATATATTTCCACTTCTTCATTCTCTCGGTATAGTTTTGTACAAATTATAGAT
TAGATCAAAAGTCTACATAACTAATACAGCTGAGCTATGTAGTATGCTATGATTAAATTTACTTATGTAAAAAAA
AAAAA

87/2682
FIGURE 82

MSLSNKLTLDKLDVKGRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLSHLGRPDGVPMPDK
YSLEPVAVELKSLLGKDVFLKDCVGPEVEKACANPAAGSVILLENLRFHVEEEGKGKDASGNKVKAEPKIEAF
RASLSKLGDVYVNDAGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPPFLAILGGAKVADKIQLIN
NMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAEKNGVKITLPVDFVTADKFDENAKTGQ
ATVASGIPAGWMGLDCGPESKKYAEAVTRAKQIVWNGPVGVFWEAFARGTKALMDEVVKATSRGCITIIIGGD
TATCCAKWNTEKDVSHVSTGGGASLELLEGGKVLPGVDALSNI

88/2682
FIGURE 83

CGCCCCTGCTCTCGCGCCGGCGTCGGCTGCGTCTCCGGCGTTTGAATTGCGCTTCCGCCATCTTCCAGCCTCAG
TCGGACGGGCGCGGAGGCGCTTCTGGAAGGAACGCCGCGATGGCTGCGCAGGGAGAGCCCCAGGTCCAGTTCAAA
CTTGATTGGTTGGTGATGGTGGTACTGGAAAAACGACCTTCGTGAAACGTCATTTGACTGGTGAATTTGAGAAG
AAGTATGTAGCCACCTTGGGTGTTGAGGTTTCATCCCCTAGTGTTCACACCAACAGAGGACCTATTAAGTTCAAT
GTATGGGACACAGCCGGCCAGGAGAAATTCGGTGGACTGAGAGATGGCTATTATATCCAAGCCAGTGTGCCATC
ATAATGTTTGATGTAACATCGAGAGTTACTTACAAGAATGTGCCTAACTGGCATAGAGATCTGGTACGAGTGTGT
GAAACATCCCCATTGTGTTGTGTGGCAACAAAGTGGATATTAAGGACAGGAAAGTGAAGGCGAAATCCATTGTC
TTCCACCGAAAGAAGAAATCTTCAGTACTACGACATTTCTGCCAAAAGTAACTACAACCTTTGAAAAGCCCTTCCTC
TGGCTTGCTAGGAAGCTCATTGGAGACCCTAACTTGAATTTGTTGCCATGCCTGCTCTCGCCCCACCAGAAGTT
GTCATGGACCCAGCTTTGGCAGCACAGTATGAGCACGACTTAGAGGTTGCTCAGACAACCTGCTCTCCCGGATGAG
GATGATGACCTGTGAGAATGAAGCTGGAGCCCAGCGTCAGAAGTCTAGTTTTATAGGCAGCTGTCTGTGATGTC
AGCGGTGCAGCGTGTGTGCCACCTCATTATTATCTAGCTAAGCGGAACATGTGCTTTATCTGTGGGATGCTGAAG
GAGATGAGTGGGCTTCGGAGTGAATGTGGCAGTTTAAAAAATAACTTCATTGTTTGGACCTGCATATTTAGCTGT
TTGGACGCAGTTGATTCCCTTGAGTTTCATATATAAGACTGCTGCAGTCACATCACAATATTCAGTGGTGAAATCT
TGTTTGTTACTGTCAATCCCATTCCTTTCTTTAGAATCAGAATAAAGTTGTATTTCAAATATCTAAGCAAGTGA
ACTCATCCCTTGTTTATAAATAGCATTGGAACCCTAAAGTAGGGAAGTTTTATGCCATGTTAATATTTGAAT
TGCCTTGCTTTTATCACTTAATTTGAAATCTATTGGGTTAATTTCTCCCTATGTTTATTTTGTACATTTGAGCC
ATGTCACACAACTGATGATGACAGGTCAGCAGTATTCTATTGGTTAGAAGGGTTACATGGTGTAATATTAGT
GCAGTTAAGCTAAAGCAGTGTGCTCCACCTTCATATTGGCTAGGTAGGGTCACCTAGGGAAGCACTTGCTCAA
AATCTGTGACCTGTGAGAATAAAATGTGGTTGTACATATCAAATAGATATTTAAGGGTAATATTTCTTTTA
TGGCAAAAGTAATCATGTTTAAATGTAGAACCTCAAACAGGATGGAACATCAGTGGATGGCAGGAGGTTGGGAAT
TCTTGCTGTAAAAATAATTACAAATTTTGCACTTTTGTGTTGAATGTTAGATGCTTAGTGTGAAGTTGATACGC
AAGCCG

89/2682
FIGURE 84

MAAQGE PQVQFKLVLVGDGGTGKTTFVKRHLTGEFEKKYVATLGVEVHPLVFHTNRGPIKFNVWDIAGQEKFGGL
RDGYYIQACAIIMFDVTSRVTYKNVPNWHRDLVRVCENIPIVLCGNKVDIKDRKVKAKSIVFHRKKNLQYYDIS
AKSNYNFEKPFLWLARKLIGDPNLEFVAMPALAPPEVMDPALAAQYEHDLVAQT TALPDEDDDL

90/2682
FIGURE 85

CGCTAGCCTGCGGAGCCCGTCCGTGCTGTTCTGCGGCAAGGCCCTTTCCCAGTGTCACGCGGAAGGCAACTGC
CTGAAAGGCGCGGCGTTCGCACCGCCAGAGCTGAGGAAGCCGGCGCCAGTTCGCGGGGCTCCGGGCCGCACTCA
GAGCTATGAGCTACGGCCGCCCCCTCCCGATGTGGAGGTATGACCTCCCTCAAGGTGGACAACCTGACCTACC
GCACCTCGCCCGACACGCTGAGGCGCGTCTTCGAGAAGTACAGGCGCGTTCGGCGACGTGTACATCCCGCGGGATC
GCTACACCAAGGAGTCCCGCGGCTTCGCCTTCGTTTCGCTTTCACGACAAGCGCGACGCTGAGGACGCTATGGATG
CCATGGACGGGGCCGTGCTGGACGGCCGCGAGCTGCGGGTGCAAAATGGCGCGCTACGGCCGCCCGGAGTAC
ACCACAGCCCGCGGGGACCGCCACCCCGCAGGTACGGGGGCGGTGGCTACGGACGCCGGAGCCGAGCCCTAGGC
GGCGTCGCGCGAGCCGATCCCGGAGTCGGAGCCGTTCCAGGTCTCGCAGCCGATCTCGCTACAGCCGCTCGAAGT
CTCGGTCCCGCACTCGTTCTCGATCTCGGTTCGACCTCCAAGTCCAGATCCGCACGAAGGTCCAAGTCCAAGTCT
CGTCGGTCTCCAGATCTCGTTTCGCGGTCCAGGTCCCGGTCTCGGTCCAGGAGTCTCCCCAGTGTCCAAGAGGG
AATCCAAATCCAGGTTCGCGATCGAAGAGTCCCCCAAGTCTCCTGAAGAGGAAGGAGCGGTGTCTCTTAAGAAA
ATGATGTATCGGCAAGCAGTGTAACGGAGGACTTGGGGAAAAAGGACCACATAGTCCATCGAAGAAGAGTCTTT
GGAACAAGCAACTGGCTATTGAAAAGGTTATTTTGTAACATTGTCTAACTTTTTACTTGTGTTAAGCTTTGCCTC
AGTTGGCAAACCTTCATTTTATGTGCCATTTTGTGCTGTTATTCAAATTTCTTGTAAATTTAGTGAGGTGAACGAC
TTCAGATTTTATTATTGGATTGGATATTTGAGGTAAAATTTCAATTTTGTATATAGTGCTGACTTTTTTTTTTT
GAAATTAAACAGATTGGTAACCTAATTTGTGGCTCCTGACTTTTAAGGAAAACGTGTGCAGCCATTACACACAG
CCTAAAGCTGTCAAGAGATTGACTCGGCATTTCGTTTCATTCCCTTAAAAATTAACCTACAAAAGTTGGTGTAAT
TTGTATATGTTATTTACCTTCAGATCTAAATGGTAATCTGAACCCAAATTTGTATAAAGACTTTTCAGGTGAAAA
GACTTGATTTTTTGAAAGGATTGTTTATCAAACACAATTCTAATCTCTTCTTATGTATTTTTGTGCACTAGGC
GCAGTTGTGTAGCAGTTGAGTAATGCTGGTTAGCTGTTAAGGTGGCGTGTTCAGTGCAGAGTGCTTGCTGTTT
CCTGTTTTCTCCGATTGCTCCTGTGTAAAGATGCCCTTGTGTCGAGAAACAAATGGCTGTCCAGTTTATTAATA
TGCCTGACAACTGCACTTCCAGACACCCGGGCCCTTGCATATAAATAACGGAGCATACAGTGAGCACATCTAGCTG
ATGATAAATACACCTTTTTTTCCCTCTTCCCCCTAAAAATGGTAAATCTGATCATATCTACATGTATGAACTTAA
CATGGAATGTTAAGGAAGCAAATGGTTGTAACCTTGTAAAGTACTTATAACATGGTGATCTTTTTGCTTATGA
ATATCTGTATTATAACCATTTGTTCTGTAGTTTAATTAACATTTTCTTGGTGTTAGCTTTAAAAA

91/2682
FIGURE 86

MSYGRPPPDVEGMTSLKVDNLTYRTSPDTLRRVFEKYRRVGDVYIPRDRYTKESRGFAFVRFHDKRDAEDAMDAM
DGAVLDGRELRVQMARYGRPPDSHHSRRGPPPRRYGGGGYGRRSRSPRRRRSRSRSRSRSRSRSRSRYSRSKSR
SRTRSRSRSTSKSRSAARRSKSKSSSVSRSRSRSRSRSRSPPPVSKRESKSRSRKSPPKSPEEEGAVSS

92/2682
FIGURE 87

GAGAGGAGACACCGCCGAGTTGCCGGTACATCGGGGATTTCTGGCTCTTTCTCTTCGCCCTTAAATTCGGGTGT
CTTTTATGAATAATCAAAAGCAGCAAAAGCCAACGCTATCAGGCCAGCGTTTTAAACTAGAAAAAGAGATGAAA
AAGAGAGGTTTGACCCTACTCAGTTTCAAGACTGTATTATTCAAGGCTTAACTGAAACCGGTACTGATTGGGAAG
CAGTAGCTAAGTTTCTTGATGCTTCTGGAGCAAACTTGATTACCGTCGATATGCAGAAACACTCTTTGACATTCT
TGGTGGCTGGTGAATGCTGGCCCCAGGTGGTACACTGGCAGATGACATGATGCGTACAGATGTCTGCGTGTGTTG
CAGCCCAAGAAGATCTAGAGACCATGCAAGCATTGCTCAGGTTTTTAACAAGTTAATCAGGCGCTACAAATACC
TGGAGAAAGTTTTGAAGATGAAGTAAAAAGCTGCTGCTGTTCTTGAAGGGTTTTTCAGAGTCGGAGAGGAACA
AGCTAGCTATGTTGACTGGTGTCTTCTGGCTAATGGAACACTTAAATGCATCCATTCTTAATAGCCTTTATAATG
AAAATTTGGTTAAAGAAGGAGTTTCAGCAGCTTTTCTGTGAAGCTCTTTAAATCATGGATAAATGAAAAAGATA
TCAATGCAGTAGCTGCAAGTCTTCGAAAGTCAGCATGGATAACAGACTGATGGAACCTTTTCTGCCAATAAGC
AAAGTGTTGAACACTTCACAAAATATTTTACTGAGGCAAGGCTTGAAGAGCTTTTCAAGATATGTTCCGAATCAGC
AAACCATCGGAGCTCGTAAGGAGCTCCAGAAAGAAGCTTCAAGAACAGATGTCCTGGTGATCCATTTAAGGATA
TAATTTTATATGTCAAGGAGGAGATGAAAAAAACAACATCCCAGAGCCAGTTGTCATCGGAATAGTCTGGTCAA
GTGTAATGAGCACTGTGGAATGGAACAAAAAGAGGAGCTTGTAGCAGAGCAAGCCATCAAGCACTTGAAGCAAT
ACAGCCCTCTACTTGTCTGCTTTTACTACTCAAGGTGAGTCTGAGCTGACTCTGTTACTGAAGATTGAGGAGTATT
GCTATGACAACATTCATTTTATGAAAGCCTTCCAGAAAATAGTGGTGCTTTTTTATAAAGCTGAAGTCTGAGCG
AGGAGCCCATTTTGAAGTGGTATAAAGATGCACATGTTGCAAAGGGGAAGAGTGTTCCTTGAGCAATGAAAA
AGTTTGTAGAATGGCTCAAAAATGCTGAAGAAGAATCTGAATCTGAAGCTGAAGAAGGTGACTGAATTTTGAAC
TACACCTCAGTAAAGCAACAGGAGTTGTAGATAAAATGTATGTCTCATGTGCTCGGTTCTTACATCTTCCT
ACCTCCCTGTATCAAGCATGATATAAGGGCTTTTATGCGCAATTTTATTTAACTGTTTCTATGTTGCTGAAAA
TGTTGGGTTTAGTTTCTAAAACCATGTTTTAAGTAGCTACAGGAGCTATAGATTGAACTAATGTTGCATTAGT
CTTTTCAGTTATCTTCTACCTCCTGTATTTTCTACTGTAATAATGTAATTTAAGGCCTTCCACAATGAACAGTTC
ACTTTATTCCTGGGTTTTCTATAAACAGTTTTAAGGATATGATTGGTTAAAAAATAATTTGTTATAAAAAATTC
TGTTTGCAAATTAAGTGGAAAAGTATCCAGAGTCTCAAAAGGCAATGATTGTGAGATAATATGGCATGCCCGG
AGCCCTGCTCATCAATGAAAAACCCATATGTAATAATCGAATTCATTTAACATGAATCTTGAGTACGTGGACCAT
TGCTTGATGTTAACTTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGCAATTTTAACTCCAGATATCCTAAAGCTC
AATTGTTTGGTCTCTGGTTTTTATCCTTAGAGAAGCCATGGAGAACAGACTTGAAAAGTTTAGGAAATCATAATG
TGGCAGAGGTGGTGGGAAGAAGAAAGTTGAGCTTTTTCCCTTGAGAACTTCTGCATTTAGTTTCTATCTTTCC
AGGCAAAACAAATGGGTATTCTTTTATACAACCATTTTCAAATGAACCTTAGAAAAGTCTTAACATTTAAGGTA
TTTTATGCACAGAATACACTTAGATTGATAGGAAAGAACTCGTAATGGAGTTTGAGTAAAGAAAATGACTGATGT
ACTAAACCCAGTAAAAATGTTGAAAATGTTAAAGGTGAGCATGTTCTAATTGGGAATCTAGATATAGCTTAGAT
TTCCTATTGGCTTAGAGTATTTGCTATAACAAATGAAGTGCAATGACAATTATATTTCTACTCGGTCTACTG
GACTGGCTTCGTTCTTAAATATACTCAGTAATGACTCAAGCCTCTGGCTATTAACATACCCTAGTTGCCGTTTT
TTAATTGCCATGAGCCAAATACTTCTTGGTATACAATTGATCCATTTATTTAATGGCTGCCTTTTCAATTTTCAT
CTTTTCTTGCTGCTACCCATCTATGTATGTAGTCATTGGGGGAAAATGTAGCCACATTTTTATGGGAAGACTT
TGTGTTAAAAGTGAACATTTTGAAGGTTTTTAACTGGTGAACTAGCCTGGAATAATGCCACCAGAGACTGAGTG
GAAATCGCCCTTTTGAAGGTGCCATTCTTATGAGCCAAAAGTTTGTCATTTAAAAGTTCATTTGAGGGAATAA
CATGTAATATAATTTGAAATAAAGGTATAGTAACCTTAAAAAGAACATTATAACTGATTGTTGTGAATGGGGTGA
ATTTGTTAAAATGAGTAACTTTGATAAAGTTTTTCATGCACAGGCAAAATGTATTCACTAGATTTCTACGTAGTG
ATCTGCTTTTACTTTGTAATTTGTAGTTCTCAAAAGACTTTTTTTTTAAAAAATAAAGTCCATACTTACACTT

93/2682
FIGURE 88

MNNQKQQKPTLSGQRFKTRKRDEKERFDPTQFQDCIIQGLTETGTDLEAVAKFLDASGAKLDYRRYAETLFDILV
AGGMLAPGGTLADMMRTDVCVFAAQEDLETMQAFAQVFNKLIRRYKYLEKGFEDEVKLLLLFLKGFSESERNKL
AMLTGVLLANGTLNASILNSLYNENLVKEGVSAFAVKLFKSWINEKDINAVAASLRKVSMDNRLMELFPANKQS
VEHFTKYFTEAGLKELSEYVRNQQTIGARKELQKELQEQMSRGDPFKDIIILYVKEEMKKNNIPEPVVIGIVWSSV
MSTVEWNKKEELVAEQAIKHLKQYSPLLAFTTQGSSELTLLKIQEYCYDNIHFMKAFQKIVVLFYKAEVLSEE
PILKWKDAHVAKGKSVFLEQMKKFVEWLKNAEESESEAEED

FIGURE 89

GTCAGTCCCTCCTGTAGCCGCCGCCGCCGCCGCCGCCCTCTGCCAGCAGCTCCGGCGCCACCTCGGGCCG
GCGTCTCCGGCGGGCGGGAGCCAGGCGCTGACGGGCGGGCGGGGCGGCCGAGCGCTCCTGCGGCTGCGACTCA
GGCTCCGGCGTCTGCGCTTCCCCATGGGGCTGGCCTGCGGCGCTTGGCGCTCTGAGATTGTCACTGCTGTTCCA
AGGGCACACGCAGAGGGATTGGAATTCCTGGAGAGTTGCCTTTGTGAGAAGCTGGAAATATTTCTTTCAATTCC
ATCTCTTAGTTTTCCATAGGAACATCAAGAAATCATGAACAACTTTGGTAATGAAGAGTTTGACTGCCACTTCCT
CGATGAAGGTTTTACTGCCAAGGACATTCTGGACCAGAAAATTAATGAAGTTTCTTCTCTGATGATAAGGATGC
CTTCTATGTGGCAGACCTGGGAGACATTCTAAAGAAACATCTGAGGTGGTTAAAGCTCTCCCTCGTGTACCCCC
CTTTTATGCAGTCAAATGTAATGATAGCAAAGCCATCGTGAAGACCCCTTGCTGCTACCGGGACAGGATTTGACTG
TGCTAGCAAGACTGAAATACAGTTGGTGCAGAGTCTGGGGGTGCCTCCAGAGAGGATTATCTATGCAAATCCTTG
TAAACAAGTATCTCAAATTAAGTATGCTGCTAATAATGGAGTCCAGATGATGACTTTTGATAGTGAAGTTGAGTT
GATGAAAGTTGCCAGAGCACATCCCAAAGCAAAGTTGGTTTTGCGGATTGCCACTGATGATTCCAAAGCAGTCTG
TCGTCTCAGTGTAAATTCGGTGCACGCTCAGAACCAGCAGGCTCCTTTTGGAACGGGCGAAAGAGCTAAATAT
CGATGTTGTTGGTGTGAGCTTCCATGTAGGAAGCGGCTGTACCGATCCTGAGACCTTCGTGCAGGCAATCTCTGA
TGCCCGCTGTGTTTTTGACATGGGGGCTGAGGTTGGTTTCAGCATGTATCTGCTTGATATTGGCGGTGGCTTTCC
TGGATCTGAGGATGTGAAACTTAAATTTGAAGAGATCACCGGCGTAATCAACCCAGCGTTGGACAAATACTTTCC
GTCAGACTCTGGAGTGAGAATCATAGCTGAGCCCGGCAGATACTATGTTGCATCAGCTTTCACGCTTGCAAGTTAA
TATCATTGCCAAGAAAATTGTATTAAAGGAACAGACGGGCTCTGATGACGAAGATGAGTCGAGTGAGCAGACCTT
TATGTATTATGTGAATGATGGCGTCTATGGATCATTTAATTGCATACCTATGACCACGCACATGTAAAGCCCT
TCTGCAAAAGAGACCTAAACCAGATGAGAAGTATTATTCATCCAGCATATGGGGACCAACATGTGATGGCCTCGA
TCGGATTGTTGAGCGCTGTGACCTGCCTGAAATGCATGTGGGTGATTGGATGCTCTTTGAAAACATGGGCGCTTA
CACTGTTGCTGCTGCCTCTACGTTCAATGGCTTCCAGAGGCCGACGATCTACTATGTGATGTCAGGGCCTGCGTG
GCAACTCATGCAGCAATTCCAGAACCCCGACTTCCACCCGAAGTAGAGGAACAGGATGCCAGCACCCCTGCCTGT
GTCTTGTGCCTGGGAGAGTGGGATGAAACGCCACAGAGCAGCCTGTGCTTCGGCTAGTATTAATGTGTAGATAGC
ACTCTGGTAGCTGTTAACTGCAAGTTTAGCTTGAATTAAGGGATTTGGGGGACCATGTAACCTAATTACTGCTA
GTTTTGAAATGCTTTGTAAGAGTAGGGTCGCCATGATGCAGCCATATGGAAGACTAGGATATGGGTACACTTA
TCTGTGTTTCTATGGAAACTATTTGAATATTTGTTTTATATGGATTTTATTCACTCTTCAGACACGCTACTCAA
GAGTGCCCTCAGCTGCTGAACAAGCATTGTAGCTTGTACAATGGCAGAATGGGCCAAAAGCTTAGTGTTGTGA
CCTGTTTTTAAATAAAGTATCTTGAAATAATTAGGC

95/2682
FIGURE 90

MNNFGNEEFDCFLDEGFTAKDILDQKINEVSSSDDKDAFYVADLGDILKKHLRWLKA
LPRVTPFYAVKCNDSKA
IVKTLAATGTGFDCASKTEIQLVQSLGVPPERIIYANPCKQVSQIKYAAANGVQMMTFDSE
VELMKVARAHPKAK
LVLRIATDDSKAVCRLSVKFGATLRTSRLLLERAKELNIDVVGVSFHVGSGCTDPETFVQA
ISDARCVFDMGAEV
GFSMYLLDIGGGFPGSEDVKLKFEEITGVINPALDKYFPSDSGVRIIAEPGRYYVASAFTL
AVNIIAKKIVLKEQ
TGSDDDESESEQTFMYVNDGVYGSFNCILYDHAHVKPLLQKRPKPDEKYYSSSIWGPTCD
GLDRIVERCDLPEM
HVGDWMLFENMGAYTVAAASTFNGFQRPTIYYVMSGPAWQLMQQFQNPDPPEVEEQDAS
TLPVSCAWESGMKRH
RAACASASINV

96/2682
FIGURE 91

CACGCTTGCCGCCGCCCGCAGAAATGCTTCGGTTACCCACAGTCTTTGCCAGATGAGACCGGTGTCCAGGGTA
CTGGCTCCTCATCTCACTCGGGCTTATGCCAAAGATGTAAATTTGGTGCAGATGCCCGAGCCTTAATGCTTCAA
GGTGTAGACCTTTTAGCCGATGCTGTGGCCGTTACAATGGGGCCAAAGGGAAGAACAGTGATTATTGAGCAGGGT
TGGGGAAGTCCCAAAGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAATTGACTTAAAGATAAATACAAGAAC
ATTGGAGCTAAACTTGTTCAGATGTTGCCAATAACACAAATGAAGAAGCTGGGGATGGCACTACCACTGCTACT
GTACTGGCAGCTCTATAGCCAAGGAAGGCTTCGAGAAGATTAGCAAAGGTGCTAATCCAGTGGAATCAGGAGA
GGTGTGATGTTAGCTGTTGATGCTGTAATTGCTGAACCTTAAAAAGCAGTCTAAACCTGTGACCAACCCCTGAAGAA
ATTGCACAGGTTGCTACGATTTCTGCAAACGGAGACAAAGAAATTGGCAATATCATCTCTGATGCAATGAAAAAA
GTTGGAAGAAAGGGTGTATCACAGTAAAGGATGGAAAAACACTGAATGATGAATTAGAAATTATTGAAGGCATG
AAGTTTGTATCGAGGCTATATTTCTCCATACTTTATTAATACATCAAAAGGTCAGAAATGTGAATTCCAGGATGCC
TATGTTCTGTTGAGTGAAAAGAAAATTTCTAGTATCCAGTCCATTGTACCTGCTCTTGAAATTGCCAATGCTCAC
CGTAAGCCTTTGGTCATAATCGCTGAAGATGTTGATGGAGAAGCTCTAAGTACACTCGTCTTGAAATAGGCTAAAG
GTTGGTCTTCAGGTTGTGGCAGTCAAGGCTCCAGGGTTTGGTGACAATAGAAAGAACAGCTTAAAGATATGGCT
ATTGCTACTGGTGGTGCAGTGTGTTGGAGAAGAGGGATTGACCTGAATCTTGAAGACGTTTCCAGCTCATGACTTA
GGAAAAGTTGGAGAGGTCATTGTGACCAAAGACGATGCCATGCTCTTAAAGGAAAAGGTGACAAGGCTCAAATT
GAAAAACGTATTCAAGAAATCATTGAGCAGTTAGATGTCACAACTAGTGAATATGAAAAGGAAAAACTGAATGAA
CGGCTTGCAAAACCTTTCAGATGGAGTGGCTGTGCTGAAGGTTGGTGGGACAAGTGATGTTGAAGTGAATGAAAAG
AAAGACAGAGTTACAGATGCCCTTAATGCTACAAGAGCTGCTGTTGAAGAAGGCATTGTTTTGGGAGGGGGTTGT
GCCCTCCTTCGATGCATTCCAGCCTTGGACTCATTGACTCCAGCTAATGAAGATCAAAAAATTGGTATAGAAATT
ATTAAGAAGACACTCAAAATTCCAGCAATGACCATTGCTAAGAATGCAGGTGTTGAAGGATCTTTGATAGTTGAG
AAAATTATGCAAAGTTCTCAGAAGTTGGTTATGATGCTATGGCTGGAGATTTTGTGAATATGGTGGAAAAAGGA
ATCATTGACCCAACAAAGGTTGTGAGAAGTCTTTATTGGATGCTGCTGGTGTGGCCTCTCTGTTAACTACAGCA
GAAGTTGTAGTCACAGAAATTCTTAAAGAAGAGAAGGACCCTGGAATGGGTGCAATGGGTGGAATGGGAGGTGGT
ATGGGAGGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACCTTTATTAATGAACTGTGACAGGAAGCCCAAGGC
AGTGTTCTCACCATAACTTCAGAGAAGTCAGTTGGAGAAAATGAAGAAAAGGCTGGCTGAAAATCACTATAA
CCATCAGTTACTGGTTTCAGTTGACAAAATATATAATGGTTTACTGCTGTCATTGTCCATGCCTACAGATAATTT
ATTTTGTATTTTGAATAAAAAACATTTGTACATTCTGATACTGGGTACAAGAGCCATGTACCAGTGTACTGCT
TTCAACTTAAATCACTGAGGCATTTTACTACTATTCTGTTAAAAATCAGGATTTTAGTGCTTGCCACCACCAGAT
GAGAAGTTAAGCAGCCTTTCTGTGGAGAGTGAGAATAATTGTGTACAAAGTAGAGAAGTATCCAATTATGTGACA
ACCTTTGTGTAATAAAAAATTTGTTTAA

97/2682
FIGURE 92

MLRLPTVFRQMRPVSRVLAPHLTRAYAKDVKFGADARALMLQGVDLLADAVAVTMGPKGRTVIEQGWGSPKVTK
DGVTVAKSIDLKDKYKNIGAKLVQDVANNNTNEEAGDGTITATVLARSIAGEGFEKISKGANPVEIRRGVMLAVDA
VIAELKKQSKPVTTPEEIAQVATISANGDKEIGNIISDAMKKVGRKGVITVKDGKTLNDELEIEGMMKFDRGYIS
PYFINTSKGQKCEFQDAYVLLSEKKISSIQSIVPALEIANAHRKPLVIIAEDVDGEALSTLVNRLKVGLQVVAV
KAPGFGDNRKNQLKDMAIATGGAVFGEEGLTLNLEDVQPHDLGKVGEVIVTKDDAMLLKGKGDKAQIEKRIQEI
EQLDVTTSEYEKEKLNERLAKLSGVAVLKVGGSDEVNEKKDRVTDALNATRAAVEEGIVLGGGCALLRCIPA
LDSLTPANEDQKIGIEIIKRTLKIPAMTIKNAGVEGSLIVEKIMQSSSEVGYDAMAGDFVNMVEKGIIDPTKV
RTALLDAAGVASLLTTAEVVVTEIPKEEKDFGMGAMGGMGGMGGMF

98/2682
FIGURE 93

GTTCCAAGGTTTGC GGCCCGTCTCGGAGAAGAGGGGAGAGTGGAGGGCCGCTGAATAAGCTTCCAAAATGATGC
CCACACCAGTTATCCTATTGAAAGAGGGGACTGATAGCTCCCAAGGCATCCCCAGCTTGTGAGTAACATCAGTG
CCTGCCAGGTGATTGCTGAGGCTGTAAGAACTACCCTGGGTCCCCGTGGCATGGACAAGCTTATTGTAGATGGCA
GAGGCAAAGCAACAATTTCTAATGATGGGGCCACAATTCTGAAACTTCTTGATGTTGTCCATCCTGCAGCAAAGA
CTTTGGTAGACATTGCCAAATCCCAAGATGCTGAGGTGGGTGATGGCACCACCTCAGTGACCTTGCTGGCTGCAG
AGTTTCTGAAGCAGGTGAAACCCTATGTGGAGGAAGGTTTACACCCCAAGATCATTCAGAGCTTTCCGCACAG
CCACCCAGCTGGCAGTTAACAAGATCAAAGAGATTGCTGTGACCGTGAAGAAGGCAGATAAAGTGGAGCAGAGGA
AGCTGCTGGAAAAGTGTGCCATGACCGCTCTGAGCTCCAAGCTGATCTCCAGCAGAAAGCTTTCTTTGCTAAGA
TGGTGGTGGATGCAGTGATGCTCGATGATTGCTGCAGCTTAAATGATTGGAATCAAGAAGGTACAGGGTG
GAGCCCTCGAGGATTCTCAGCTGGTAGCTGGTGTGCATTCAAGAAGACTTTCTCTACGCTGGGTTTGAAATGC
AACCCAAAAAGTACCACAATCCCAAGATTGCCCTTTGAATGTCGAGCTCGAGTTGAAAGCTGAGAAAGACAATG
CTGAGATAAGAGTCCACACAGTTGAGGATTATCAGGCAATTGTTGATGCTGAGTGGAACATTCTCTATGACAAGT
TAGAGAAGATCCATCATTCTGGAGCCAAAGTTGTCTTGTCAAACTCCCCATTGGGGATGTGGCCACCCAGTACT
TTGCTGACAGGGACATGTTCTGTGCTGGCCGAGTACCTGAGGAGGATCTGAAGAGGACAATGATGGCCTGTGGAG
GCTCAATCCAGACCAGTGTGAATGCTCTGTGTCAGCAGATGTGCTGGGTGATGCCAGGTGTTTGAAGAGACCCAGA
TTGGAGGCGAGAGGTACAATTTTTTTACTGGCTGCCCCAAGGCCAAGACATGCACCTTCATTCTCCGTGGCGGCG
CCGAGCAGTTTATGGAGGAGACAGAGCGGTCCCTGCATGATGCCATCATGATCGTCAGGAGGGCCATCAAGAATG
ATTCAGTGGTGGCTGGTGGCGGGGCCATTGAGATGGAACCTCTCCAAGTACCTGCGGGATTACTCAAGGACTATT
CAGGAAAACAGCAGCTGTTGATTGGGGCTTATGCCAAGGCCTTGAGATTATCCACGCCAGCTGTGTGACAATG
CTGGCTTTGATGCCACAAACATTCTCAACAAGCTCGGGCTCGGCATGCCAGGGGGGTACATGGTATGGAGTAG
ACATCAACAACGAGGACATTGCTGACAACCTTTGAAGCTTTCGTGTGGGAGCCAGCTATGGTGCAGTCAATGCGC
TGACAGCAGCCTCTGAGGCTGCGTGCCTGATCGTGTCTGTAGATGAAACCATCAAGAACCCCGCTCGACTGTGG
ATGCTCCACAGCAGCAGGCCGGGGCCGTTGGTCTGTGGCCGCCCCACTGAGAGGCACCCACCCATCACATGGCT
GGCTGGCTGCTGGGTGCACCTACCCCTCCTTGGCTTGGTTACTTCATTTTACAAGGAAGGGGTAGTAATTGGCCCA
CTCTCTTCTTACTGGAGGCTATTTAAATAAAATGTAAGACTTCAAAAAAAAAAAAAAAAAAAAAA

99/2682
FIGURE 94

MMPTPVILLKEGTDSSQGIPQLVSNISACQVIAEAVRTTLGPRGMDKLIVDGRGKATISNDGATILKLLDVVHPA
AKTLVDIAKSQDAEVGDGTTSVILLAAEFLKQVKPYVEEGLHPQIIIRAFRTATQLAVNKIKEIAVTVKKADKVE
QRKLEKCAMTALSSKLISQQKAFFAKMVVDVMMDDLLQLKMIGIKKVQGGAEDESQLVAGVAFKKTF SYAGF
EMQPKKYHNPKIALLNVELELKAEKDNAEIRVHTVEDYQAIVDAEWNILYDKLEKIHHSAGKVVLSKLP IGDVAT
QYFADRMFCAGRVPEEDLKRTMMACGGSIQTSVNALSADVLGRCQVFEETQIGGERYNFFTGCPKAKTCTFILR
GGAEQFMEETERSLHDAIMIVRRAIKNDSV VAGGAIEMELSKYL RDYSRTIPGKQQLLIGAYAKALEI IPRQLC
DNAGFDATN I LNKLRARHAQGGTWYGVDINNEDIADNFEAFVWEPAMVRINALTAASEAACLIVSDETIKNPRS
TVDAPTAAGRGRGRGRPH

100/2682
FIGURE 95

CGGGGCGGCAGGCTTCTCGAGCTCCGGGCCCCGCGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGCATGTA
CGAGCAACTCAAGGGCGAGTGAACCGTAAAAGCCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGGTCGACTCAA
GCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACCACAGGGACCAAGCTGACCAAACAGCAGCTAATTCTGGCCCG
TGACATACTGGAGATCGGGGCCCAATGGAGCATCCTACGCAAGGACATCCCCTCCTTCGAGCGCTACATGGCCCA
GCTCAAATGCTACTACTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTATATGCACCAGCTCTTGGGCCTCAA
CCTCCTCTTCTGCTGTCCCAGAACCGGGTGGCTGAGTTCCACACGGAGTTGGAGCGGCTGCCTGCCAAGGACAT
ACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGTT
CCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGA
GATCGCTGGGTGCATCGAGAAGGCCTACGAGAAAAATCCTTTTCACTGAGGCCACCCGGATCCTCTTCTTCAACAC
ACCCAAAAAGATGACAGACTACGCCAAGAAGCGAGGGTGGGTCTGGGCCCCAACAACTACTACAGTTTGGCCAG
CCAGCAGCAGAAGCCGGAAGACACCACCATTCCTCCACAGAAGTGGCCAAACAGGTATCGAGTATGCCCAGCA
GCTGGAGATGATCGTCTGAGCCCCCGGGCACTGGGTGGGGCAGGGCACGAGTTATTTAAACAGTTACACTGCA
GGGTTTCGCCCAATAAAGGTGGACTGAC

101/2682
FIGURE 96

MYEQLKGEWNRKSPNLSKCGEELGRCLKVLLELNLFLPTTGKLTQQLILARDILEIGAQWSILRKDIPSFERYM
AQLKCYFFDYKEQLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLEQYLMEGSYNK
VFLAKGNIPAESYTFFIDILLDTIRDEIAGCIEKAYEKILFTEATRILFFNTPKKMTDYAKKRGWVLGPNNYYSE
ASQQQKPEDTTIPSTELAKQVIEYARQLEMIV

102/2682
FIGURE 97

GGCACGAGGATGGAGGAGGGAGGCCGGGACAAGGCGCCGGTGCAGCCCCAGCAGTCTCCAGCGGCGGCCCCCGGC
GGCACGGACGAGAAGCCGAGCGGCAAGGAGCGGCGGGATGCCGGGACAAGGACAAAGAACAGGAGCTGTCTGAA
GAGGATAAACAGCTTCAAGATGAACTGGAGATGCTCGTGGAACTAGGGGAGAAGGATACATCCCTGTATCGA
CCAGCGCTGGAGGAATTGCGAAGGCAGATTGCTTCTTCTACAACCTCCATGACTTCAGTGCCCAAGCCTCTCAA
TTTCTGCGTCCACACTATGGCAAACCTGAAGGAAATCTATGAGAACATGGCCCCCTGGGGAGAATAAGCGTTTTGCT
GCTGACATCATCTCCGTTTTGGCCATGACCATGAGTGGGGAGCGTGAGTGCCTCAAGTATCGGCTAGTGGGCTCC
CAGGAGGAATTGGCATCATGGGGTCATGAGTATGTCAGGCATCTGGCAGGAGAAGTGGCTAAGGAGTGGCAGGAG
CTGGATGACGCAGAGAAGGTCCAGCGGGAGCCTCTGCTCACTCTGGTGAAGGAAATCGTCCCCCTATAACATGGCC
CACAATGCAGAGCATGAGGCTTGGCAGCTGCTTATGGAATTGAGCAGGTGGACATGCTGGAGAAGGACATTGAT
GAAAATGCATATGCAAAGGTCTGCCCTTATCTCACCAGTTGTGTGAATTACGTGCCTGAGCCTGAGAATCAGCC
CTACTGCGTTGTGCCCTGGGTGTGTTCCGAAAGTTAGCCGCTTCCCTGAAGCTCTGAGATTGGCATTGATGCTC
AATGACATGGAGTTGGTAGAAGACATCTTACCTCCTGCAAGGATGTGGTAGTACAGAAACAGATGGCATTTCATG
TAGGCCCGGCATGGGGTGTTCCTGGAGCTGAGTGAAGATGTCGAGGAGTATGAGGACCTGACAGAGATCATGTCC
AATGTACAGCTCAACAGCAACTTCTTGGCCTTAGCTCGGGAGCTGGACATCATGGAGCCCAAGGTGCCCTGATGAC
ATCTACAAAACCCACCTAGAGAACAACAGGTTTGGGGGAGTGGCTCTCAGGTGGACTCTGCCCCGATGAACCTG
GCTCCTCTTTTTGTGAATGGCTTTGTGAATGCAGCTTTTGGCCAAGACAAGCTGCTAACAGATGATGGCAACAAA
TGGCTTTACAAGAACAAGGACCAGGAATGTTGAGTGCAGCTGCATCTCTTGGGATGATTCTGCTGTGGGATGTG
GATGGTGGCCTCACCAGATTGACAAGTACCTGTACTCCTCTGAGGACTACATTAAGTCAGGAGCTCTTCTTGCC
TGTGGCATAGTGAACCTCTGGGGTCCGGAATGAGTGTGACCCTGCTCTGGCACTGCTCTCAGACTATGTTCTCCAC
AACAGCAACACCATGAGACTTGGTTCCATCTTGGGCTAGGCTTGGCTTATGCTGGCTCAAATCGTGAAGATGTC
CTAACACTGCTGCTGCTGTGATGGGAGATTCAAAGTCCAGCATGGAGGTGGCAGGTGTCACAGCTTTAGCCTGT
GGAATGATAGCAGTAGGGTCTGCAATGGAGATGTAACCTCCACTATCCTTCAGACCATCATGGAGATGAGAG
ACTGAGCTCAAGGATACTTATGCTCGTTGGCTTCCCTTGGACTGGGTCTCAACCACCTGGGGAAGGGTAGGGCC
ATCGAGGCAATCCTGGCTGCACTGGAGGTTGTGTGTCAGAGCCATTCCGAGTTTTGCCAACACACTGGTGGATGTG
TGTGCATATGCAGGCTCTGGGAATGTGCTGAAGGTGCAGCAGCTGCTCCACATTTGTAGCGAACACTTTGACTCC
AAAGAGAAGGAGGAAGACAAAGACAAGAAGGAAAAGAAAAGACAAGGACAAGAAGGAAGCCCTGCTGACATGGGA
GCACATCAGGGAGTGGCTGTTCTGGGGATTGCCCTTATTGCTATGGGGGAGGAGATTGGTGCAGAGATGGCATT
CGAACCTTTGGCCACTTGCTGAGATATGGGGAGCCTACACTCCGGAGGGCTGTACCTTTAGCACTGGCCCTCATC
TCTGTTTCAAATCCACGACTCAACATCCTGGATACCCTAAGCAAATCTCTCATGATGCTGATCCAGAAGTTTCC
TATTACTCCATTTTGGCATGGGCATGGTGGGAGTGGTACCAATAATGCCCGTCTGGCTGCAATGCTGCGCCAG
TTAGCTCAATATCATGCCAAGGACCCAAACAACCTTTCATGGTGCCTTGGCACAGGGCCTGACACATTTAGGG
AAGGGCACCTTTACCTCTGCCCCTACCACAGCGACCGGCAGCTTATGAGCCAGGTGGCCGTGGCTGGACTGCTC
ACTGTGCTTGTCTCTTCTTCTGGATGTTGGAACATTATTCTAGGCAAATCACACTATGTATTGTATGGGCTGGTG
GCTGCCATGCAGCCCCGAATGCTGGTTACGTTTGATGAGGAGCTGCGGCCATTGCCAGTGTCTGTCCGTGTGGGC
CAGGCAGTGGATGTGGTGGGCCAGGCTGGCAAGCCGAAGACTATCACAGGGTTCAGACGCATACAACCCAGTG
TTGTTGGCCACGGGGAACGGGCAGAATTGGCCACTGAGGAGTTTCTTCTGTTACCCCCATTCTGGAAGGTTTT
GTTATCCTTCGGAAGAACCCCAATTATGATCTCTAAGTGACCACCAGGGGCTCTGAACTGCAGCTGATGTTATCA
GCAGGCCATGCATCCTGCTGCCAAGGGTGGACACGGCTGCAGACTTCTGGGGGAATTGTGCGCTCCTGCTCTTTT
GTTACTGAGTGAGATAAGGTTGTTCAATAAAGACTTTTATCCCCAAGGTCAAAAAAAAAAAAAAAAAAAAAA
AA

103/2682
FIGURE 98

MEEGGRDKAPVQPQQSPAAAPGGTDEKPSGKERRDAGDKDKEQELSEEDKQLQDELEMLVERLGEKDTSLYRPAL
EELRRQIRSSSTTSMTSVPKPLKFLRPHYGKLKEIYENMAPGENKRFAADIISVLAMTMSGERECLKYRLVGSQEE
LASWGHEYVRHLAGEVAKEWQELDDAEKVQREPLTLVKEIVPYNMAHNAEHEACDLLMEIEQVDMLEKDIDENA
YAKVCLYLITSCVNYVPEPENSALLRCALGVFRKFSRFPEALRLALMLNDMELVEDIFTCKDVVQKQMAFMLGR
HGVFLELSEDVEEYEDLTEIMSNVQLNSNFLALARELDIMEPKVPDDIYKTHLENNRFGGSGSQVDSARMNLAS
FVNGFVNAAFQDKLLTDDGNKWLYKNKDHGMLSAAASLGMILLWDVDGGLTQIDKYLYSSEDIYKSGALLACGI
VNSGVRNECDPALALLSDYVLHNSNTMRLGSIFGLGLAYAGSNREDVLTLLLPVMGDSKSSMEVAGVTALACGMI
AVGSCNGDVTSTILQTIMEKSETELKDTYARWLPLGLGLNHLGKGEAIEAILAALEVVSSEPFERSFANTLVDVCAY
AGSGNVLKVQQLLHICSEHFDSKEKEEDKDKKEKKDKDKKEAPADMGAHQGVAVLGIALIAMGEEIGAEMALRTF
GHLLRYGEPTLRRVPLALALISVSNPRLNILDTLKFSHSHADPEVSYYISIFAMGMVSGTNNARLAAMLRLQLAQ
YHAKDPNNLFMVRLAQGLTHLGKGLTLCPYHSDRQLMSQVAVAGLLTVLVSF LDVRNIILGKSHYVLYGLVAAM
QPRMLVTFDEELRPLPVSVRVGQAVDVVGQAGPKTITGFTHTTPVLLAHGERAEELATEEFLPVTPILEGFVIL
RKNPNYDL

104/2682
FIGURE 99A

TATACTTCGCTACTTGGCTAGAGTTGCAACTACAGCTGGGTTATATGGCTCTAATCTGATGGAACATACTGAGAT
TGATCACTGGTTGGAGTTCAGTGCTACAAAATTATCTTCATGTGATTCTTTACTTCTACAATTAATGAACTCAA
TCATTGCCGTGCTCTGAGAACATACTTAGTTGGAACTCCTTGAGTTTAGCAGATTATGTGTTTGGGCCACCT
AAAAGGAAATGCTGCCTGGCAAGAACAGTTGAAACAGAAGAAAGCTCCAGTTCATGTAAACGTTGGTTTGGCTT
TCTTGAAGCCCAGCAGGCCTTCCAGTCAGTAGGTACCAAGTGGGATGTTTCAACAACCAAAGCTCGAGTGGCACC
TGAGAAAAAGCAAGATGTTGGGAAATTTGTTGAGCTTCCAGGTGCGGAGATGGGAAAGGTTACCGTCAGATTTCC
TCCAGAGGCCAGTGGTTACTTACACATTGGGCATGCAAAAGCTGCTCTTCTGAACCAGCACTACCAGGTTAACTT
TAAAGGGAACCTGATCATGAGATTGATGACACAAATCCTGAAAAAGAAAAGGAAGATTTTGAGAAGGTTATCTT
GGAAGATGTTGCAATGTTGCATATCAAACCAGATCAATTTACTTTATACTTCGGATCATTTTGAACTATAATGAA
GTATGCAGAGAAGCTAATTCAGAAGGGGAAGGCTTATGTGGATGATACTCCTGCTGAACAGATGAAAGCAGAACG
TGAGCAGAGGATAGAATCTAAACATAGAAAAACCTATTGAGAAGAATCTACAAATGTGGGAAGAAATGAAAA
AGGGAGCCAGTTGGTCACTCCTGTTGTTTGGCAGCAAAATTTGACATGAGTAGTAACAATGGATGCATGAGAGA
TCCAACCTTTTATCGCTGCAAAATTCACCACATCCAAGAAGCTGGAAATAAATACAATGTTTATCCAACATATGA
TTTTGCCTGCCCCATAGTTGACAGCATCGAAGGTGTACACATGCCCTGAGAACAACAGAATACCATGACAGAGA
TGAGCAGTTTTACTGGATTATTGAAGCTTTAGGCATAAGAAAACCATATATTGGGAATATAGTCGGCTAAATCT
CAACAACACAGTGCTATCCAAAAGAAAACCTACATGGTTTGTCAATGAAGGACTAGTAGATGGATGGGATGACCC
AAGATTTCTACGGTTCGTGGTGTACTGAGAAGAGGGATGACAGTTGAAGGACTGAAACAGTTTATTGCTGCTCA
GGGCTCCTCACGTTTCAGTCGTGAACATGGAGTGGGACAAAATCTGGGCGTTTAAACAAAAGGTTATTGACCCAGT
GGCTCCACGATATGTTGCATTACTGAAGAAAGAGTGATCCCAGTGAATGTACCTGAAGCTCAGGAGGAGATGAA
AGAAGTAGCCAAACACCCAAAGAAATCCTGAGGTTGGCTTGAAGCCTGTGTGGTATAGTCCCAAAGTTTTATTGA
AGGTGCTGATGCAGAGACTTTTTTCGGAGGGTGAGATGGTTACATTTATAAATTGGGGCAACCTCAACATTACAAA
AATACACAAAAATGCAGATGGAAAAATCATATCTCTGTATGCAAGTTTAATTTGGAAAACAAAGACTACAAGAA
AACCATAAGGTCACCTTGGCTTGCAGAGACTACACATGCTCTTCTATTCCAGTAATCTGTGTCACTTATGAGCA
CTTGATCACAAAGCCAGTGTAGGAAAAGACGAGGACTTTAAGCAGTATGTCAACAAGAACAGTAAGCATGAAGA
GCTAATGCTAGGGGATCCCTTAAGGATTTGAAAAAAGGAGATATTATACAACCTCCAGAGAAGAGGATTCTT
CATATGTGATCAACCTTATGAACCTGTTAGCCCATATAGTTGCAAGGAAGCCCCGTGTGTTTGTATACATTCC
TGATGGGCACACAAAGGAAATGCCAACATCAGGGTCAAAGGAAAAAGACCAAAAGTAGAAGCCACAAAAATGAGAC
CTCTGCTCCTTTTAAAGGAAAGACCAACACCTTCTCTGAATAATAATTGTACTACATCTGAGGATTCTTGGTCCT
TTACAATAGAGTGGCTGTTCAAGGAGATGTGGTTCCGTGAATTAAGGCAAGAAAGCAACCAAGGAAGATGTAGA
TGCAGCTGTAAACAGCTTTTGTCTTTGAAAGCTGAATATAAGGAGAAAACTGGCCAGGAATATAAACCTGGAAA
CCCTCCTGCTGAAATAGGACAGAATATTTCTTCTAATTCCTCAGCAAGTATTCTGGAAAGTAAATCTCTGTATGA
TGAAGTTGCTGCACAAGGGGAGGTGGTTTCGTAAGCTAAAAGCTGAAAAATCCCCTAAGGCTAAAATAAATGAAGC
TGTAAGATGCTTACTGTCCCTGAAGGCTCAGTATAAAGAAAAAACTGGGAAGGAGTACATACCTGGTACGCCCCC
ATTATCTCAAAGTTCGGATTCAAGCCCAACCAGAAATTCGAACCTGCTGGTTTAGAAACACCAGAAGCGAAAGT
ACTTTTTGACAAAGTAGCTTCTCAAGGGGAAGTAGTTCCGGAACCTTAAAAGCTGAAAAAGCCCCCTAAGGATCAAGT
AGATATAGCTGTTCAAGAACTCCTTCAGCTAAAGGCACAGTACAAGTCTTTGATAGGAGTAGAGTATAAGCCTGT
GTCGGCCACTGGAGCTGAGGACAAAGATAAGAAGAAAGAAAAAGAAAAATAAATCTGAAAAGCAGAATAAGCC
TCAGAAACAAAATGATGGCCAAAGGAAAGACCTTCTAAAAACCAAGGAGGTGGGCTCTCATCAAGTGGAGCAGG
AGAAGGGCAGGGGCTAAGAAACAGACCAGGTTGGGTCTTGAGGCAAAAAAAGAAAGAAATCTTGCTGATTGGTA
TTCTCAGGTATCACAAAGTCAGAAATGATTGAATACCATGACATAAGTGGCTGTTATATTCTTCGTCCCTGGGC
CTATGCCATTTGGGAAGCCATCAAGGACTTTTTTGTATGCTGAGATCAAGAACTTGGTGTGAAAAGCTGCTACTT
CCCCATGTTTGTGCTCAAAGTGCATTAGAGAAAGAGAAGACTCATGTTGCTGACTTTGCCCCAGAGGTTGCTTG
GGTTACAAGATCTGGCAAAACCGAGCTGGCAGAACCAATTGCCATTCTGCTCTACTAGTGAAAACAGTAATGTATCC
TGATATGCAAAATGGGTACAATCACACAGAGACCTGCCCATCAAGCTCAATCAGTGGTGCAATGTGGTGCGTTG
GGAATTCAAGCATCCTCAGCCTTTCTACGTACTCGTGAATTTCTTTGGCAGGAAGGGCACAGTGCTTTTGCTAC
CATGGAAGAGGCAGCGGAAGAGGTCTTGACATACTTGACTTATATGCTCAGGTATATGAAGAACTCCTGGCAAT
TCTGTGTTGTTAAAGGAAGAAAGACGGAAAAAGGAAAAATTTGCAGGAGGAGACTATACAACCTACAATAGAAGCATT
TATATCTGCTAGTGAAGAGCTATCCAGGGAGGAACATCACATCATTAGGGCAGAATTTTCCAAAATGTTTGA

105/2682
FIGURE 99B

AATCGTTTTGAAGATCCAAAGATACCAGGAGAGAAGCAATTTGCCTATCAAACTCCTGGGGCCTGACAACTCG
AACTATTGGTGTATGACCATGGTTCATGGGGACAACATGGGTTTAGTATTACCACCCCGTGTAGCATGTGTTCA
GGTGGTGATTATTCCTTGTGGCATTACCAATGCACTTTCTGAAGAAGACAAAGAAGCGCTGATTGCAAAATGCAA
TGATTATCGAAGGCGATTACTCAGTGTTAACATCCGCGTTAGAGCTGATTTACGAGATAATTATTCTCCAGGTTG
GAAATTCAATCACTGGGAGCTCAAGGGAGTTCCCATTAGACTTGAAGTTGGGCCACGTGATATGAAGAGCTGTCA
GTTTGTAGCCGTCAGACGAGATACTGGAGAAAAGCTGACAGTTGCTGAAAATGAGGCAGAGACTAAACTTCAAGC
TATTTTGGAGACATCCAGGTCACCCTTTTTACAAGGGCTTCTGAAGACCTTAAGACTCATATGGTTGTGGCTAA
TACAATGGAAGACTTTCAGAAGATACTAGATTCTGGAAAGATTGTTTCAGATTCCATTCTGTGGGGAAATTGACTG
TGAGGACTGGATCAAAAAGACCACTGCCAGGGATCAAGATCTTGAACCTGGTGCTCCATCCATGGGAGCTAAAAG
CCTTTGCATCCCTTCAAACCACTCTGTGAAGTGCAGCCTGGAGCCAAATGTGTCTGTGGCAAGAACCCTGCCAA
GTACTACACCTTATTTGGTCGCAGCTACTGAGGGATGAACGAAAGCCCCCTCTTCACTCCTCTCACTTTTTAAA
GCATTGATATTAGTATCTTCTCAGATACAGACCGTTTTATGATTTTTTAAAAAGTAAAAGTTCTAAAATGAAGTC
ACACAGGACAATTATTCTTATGCCTAAGTTAACAGTGGATAAAAGACTTTTCTGTAAACAACCTCCAGTAATAAAT
ATCATGAACCTA

106/2682
FIGURE 100

MEHTEIDHWLEFSATKLSSCDSFTSTINELNHCLSLRITYLVGNSLSLADLCVWATLKGNAAWQEQLKQKKAPVHV
KRWFGFLEAQQAFQSVGKWDVSTTKARVAPEKKQDVGKFVELPGAEMGKVTVRFPPEASGYLHIGHAKAALLNQ
HYQVNFKGKLMRFDDTNPEKEKEDFEKVILEDVAMLHIKPDQFTYTSDFETIMKYAEKLIQEGKAYVDDTPAE
QMKAREQRIESKHKRNPIEKNLQMWEEKKGSQFGHSCCLRAKIDMSSNNGCMRDPTLYRCKIQPHPRGTGNKYN
VYPTYDFACPIVDSIEGVTHALRTTEYHHRDEQFYWIEALGIRKPYIWEYSRLNLNNTVLSKRKLTWVNEGLV
DGWDDPRFPTVRGVLRRGMTVEGLKQFIAAQGSSRSVVMWEDKIWAFNKKVIDPVAPRYVALLKKEVIPVNVPE
AQEEMKEVAKHPKNPEVGLKPVWYSPKVFIEGADAETFSEGEMVTFINWGNLNTIKIHKNADGKIIISLDAKFNLE
NKDYKKTTKVTWLAETTHALPIPVICVTYEHLITKPVLGKDEDFKQYVNKNSKHEELMLGDPCLKDLKKGDIQQL
QRRGFFICDQPYEPVSPYSCKEAPCVLIYIPDGHTKEMPTSGSKEKTKVEATKNETSAPFKERPTPSLNNNCTTS
EDSLVLYNRVAVQGDVVRELKAKKAPKEDVDAAVKQLLSLKAQYKEKTGQYKPGNPPAEIGQNISSNSSASILE
SKSLYDEVAAQGEVVRKLKAEKSPKAKINEAVECLLSLKAQYKEKTGKEYIPGQPPLSQSSDSSPTRNSEPAGLE
TPEAKVLFDKVASQGEVVRKLKTEKAPKDQVDIAVQELLQLKAQYKSLIGVEYKPVSATGAEDKDKKKKEKENKS
EKQNKPKQKNDGQRKDP SKNQGGGLSSSGAGEGQPKQTRLGLEAKKEENLADWYSQVITKSEMIEYHDISGCY
ILRPWAYAIWEAIKDFDAEIKKLGVENCYFPMFVSQSALEKEKTHVADFAPVAVWTRSGKTELAEP IAIRPTS
ETVMYPAYAKWVQSHRDLPIKLNQWCNVVRWEFKHPQPFLLRTREFLWQEGHSAFATMEEAAEEVLQILDLYAQVY
EELLAIPVVKGRKTEKEKFAGGDYTTTIEAFISASGRAIQGGTSHHLGQNF SKMFEIVFEDPKIPGEKQFAYQNS
WGLTTRTIGVMTMVHGDNMGLVLPVRVACVQVVIIPCGITNALSEEDKEALIAKCNDYRRRLSVNIRVRADLRD
NYS PGWKFNHWELKGVP IRLVGP RDMKSCQFVAVRRDTGEKLTVAENEAETKLQAILEDIQVTLFTRASEDLKT
HVVANTMEDFQKILDSGKIVQIPFCGEIDCEDWIKKTARDQDLEPGAPSMGAKSLCIPFKPLCELQPGAKVC
GKNPAKYITLFGRSY

107/2682
FIGURE 101

AGAATACACTCACAAAGCCACTCCGCTGCTCGCCTCTCCGCCCCGCGTCCAGCTCGCCCAGCTCGCCCAGCGTCCG
CCGCGCCTCGCCAAAGGCTTCAACGGACCACACCAAAATGCCATCTCAAATGGAACACGCCATGGAAACCATGATG
TTTACATTTACAAATTGCTGGGGATAAAGGCTACTTAACAAAGGAGGACCTGAGAGTACTCATGGAAAAGGAG
TTCCCTGGATTTTTGGAAAATCAAAAAGACCCTCTGGCTGTGGACAAAATAATGAAGGACCTGGACCAGTGTAGA
GATGGCAAAGTGGGCTTCAGAGCTTCTTTTCCCTAATTGCGGGCCTCACCATTGCATGCAATGACTATTTTGT
GTACACATGAAGCAGAAGGGAAAGAAGTAGGCAGAAATGAGCAGTTCGCTCCTCCCTGATAAGAGTTGTCCAAAG
GGTCGCTTAAGGAATCTGCCCCACAGCTTCCCCCATAGAAGGATTTTCATGAGCAGATCAGGACACTTAGCAAATG
TAAAAATAAAATCTAACTCTCATTGACAAGCAGAGAAAGAAAAGTTAAATACCAGATAAGCTTTTGATTTTTGT
ATTGTTTGCATCCCCCTTGCCCTCAATAAATAAAGTTCTTTTGTAGTTCC

108/2682
FIGURE 102

MPSQMEHAMETMMFTFHKFAGDKGYLTKEDLRVLMEKEFPGFLENQKDPLAVDKIMKDLDQCRDGKVGFSFFSL
IAGLTIACNDYFVVHMKQKGKK

109/2682
FIGURE 103

CGCGTGAAC TGCTTCCTGCAGGCTGGCCATGGCGCTTCACGTTCCCAAGGCTCCGGGCTTTGCCAGATGCTCAA
GGAGGGAGCGAAACACTTTTCAGGATTAGAAGAGGCTGTGTATAGAAACATACAAGCTTGCAAGGAGCTTGCCCA
AACCACCTCGTACAGCATAIGGACCAAAAGGAATGAACAAAATGGTTATCAACCACCTTGGAAGAAGTTGTTTGTGAC
AAACGATGCAGCAACTATTTTAAGAGAACTAGAAGTACAGCATCCTGCTGCAAAAATGATTGTAATGGCTTCTCA
TATGCAAGAGCAAGAAGTTGGAGATGGCACAAACTTTGTTCTGGTATTGCTGGAGCTCCTGGAATTAGCTGA
AGAACTTCTGAGGATTGGCCTGTCAGTTTCAGAGGTCATAGAAGGTTATGAAATAGCCTGCAGAAAAGCTCATGA
GATTCTTCCTAATTGGTATGTTGTTCTGCAAAAACCTTCGAGATATTGATGAAGTCTCATCTCTACTTCGTAC
CTCCATAATGAGTAAACAATATGGTAATGAAGTATTCTGGCCAAGCTTATTGCTCAGGCATGCGTATCTATTTT
TCCTGATTCCGGCCATTTCAATGTTGATAACATCAGAGTTTGTA AAAATCTGGGCTCTGGTATCAGTTCCTCTTC
AGTATTGCATGGCATGGTTTTTAAGAAGGAAACCGAAGGTGATGTAACATCTGTCAAAGATGCAAAAATAGCAGT
GTACTCTTGTCTTTTGATGGCATGATAACAGAACTAAGGGAACAGTGTGATAAAGACTGCTGAAGAATTGAT
GAATTTTAGTAAGGGAGAAGAAAACCTCATGGATGCACAAGTCAAAGCTATTGCTGATACTGGTGCAAATGTCGT
AGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTATGCAAATAAATATAATATCATGTTAGTGAGGCTAAA
CTCAAAATGGGATCTCCGAAGACTTTGTAAAACCTGTTGGTGCTACAGCTCTTCCTAGATTGACACCTCCTGTCTC
TGAAGAAATGGGACACTGTGACAGTGTTCACCTCTCAGAAGTTGGAGATACTCAGGTGGTGGTTTTTAAGCATGA
AAAGGAAGATGGCGCCATTTCTACCATAGTACTTCGAGGCTCTACAGACAATCTGATGGATGACATAGAAAGGT
AGTAGACGATGGTGTAAATACTTTCAAAGTTCTTACAAGGGATAAACGCTTGTACCCGGAGGTGGAGCAACAGA
AATTGAATTAGCCAAACAGATCACATCATATGGAGAGACATGTCCTGGACTTGAACAGTATGCTATTAAGAAGTT
TGCTGAGGCATTTGAAGCTATTCCCCGCGCACTGGCAGAAAACCTCTGGAGTTAAGGCCAATGAAGTAATCTCTAA
ACTTTATGCAGTACATCAAGAAGGAAATAAAAACGTTGGATTAGATATTGAGGCTGAAGTCCCTGCTGTAAAGGA
CATGCTGGAAGCTGGTATTCTAGATACTTACCTGGGAAAATATTGGGCTATCAAACCTCGCTACTAATGCTGCAGT
CACTGTACTTAGAGTGGATCAGATCATCATGGCAAAACAGCTGGTGGGCCCAAGCCTCCAAGTGGGAAGAAAGA
CTGGGATGATGACCAAAATGATTGAAAATTGGCTTAATTTTTACTGTAGGTGAAGGCTGTATTGTAGTAGTACTC
AAGAATCACCTGATGTTTTCTTATTCTCCTTAAATTAAGAGTTATTTTGTGTTTGTATTCTGGCTGGATGTTAT
AATAAACATATTGTTACTGTC

110/2682
FIGURE 104

MALHVPKAPGFAQMLKEGAKHFSGLEEA VYRNIQACKELAQTTRTAYGPKGMNKMVINHLEKLFVTNDAATILRE
LEVQH PAAKMI VMASHMQEQEVGDGTNFVLV FAGALLELA EELLRIGLSVSEVIEGYE IACRKAHEILPNLVCCS
AKNLRD IDEVSSLLRTS IM SKQY GNEVFLAKLIAQACVSIFPDSGHFNVDNIRVCKILGSGISSSSVLHGMVFKK
ETEGDVT SVKDAKIAVYSCPF DGMITETKGTVLIKTAEELMNFSKGEENLMDAQVKAIADTGANVVVTGGKVADM
ALHYANKYNIMLVRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCD SVYLSEVGD TQVVVFKHEKEDGAISTI
VLRGSTDNLMDDIERVVDDGVNTFKVLTRDKRLVPGGGATEIELAQITSYGETCPGLEQYAIKKFAEAFEIPR
ALAENSGVKANEVISKLYAVHQEGNK NVGLDIEAEVPAVKDMLEAGILD TYLGKYWAIKLATNAAVTVLRVDQII
MAKPAGGPKPPSGKKDWDDDDQND

111/2682
FIGURE 105

GGATCCGGCAACGAAGGTACCATGCGGGGACGTGGCGCCATGGTGTGTTGCACGTGCTGTTTGTAGCACGCGGTC
GGCTACGCGCTCGTGGCGCTGAAGGAAGTGGAGGAGATCAGTCTGCTGCAGCCGCAGGTGGAGGAGTCCGTGCTC
AACCTGGGCAAATTCACAGCATCGTTCGTCTGGTGGCCTTTTGTCCCTTTGCCTCATCCCAGGTTGCCTTGAA
AATGCCAACGCCGTGTCTGAAGGGTTGTTTCATGAGGACCTCCGCCTGCTCTTGAGAGCCCACCTGCCGTCCAAA
AAGAAGAAAGTACTCTTGGGAGTTGGGGATCCCAAGATTGGTGGCGCAATACAGGAGGAGTTAGGGTACAACCTGC
CAGACTGGAGGAGTCATAGCTGAGATCCTGCGAGGAGTTTCGTCTGCACTTCCACAATCTGGTGAAGGGCTGACC
GATCTGTGAGCTTGTAAGCACAGCTGGGGCTGGGACACAGCTATTCCCGTGCCAAAGTTAAGTTTAAATGTGAAC
CGGGTGGACAATATGATCATCCAGTCCATTAGCCTCCTGGACCAGCTGGATAAGGACATCAATACCTTCTCTATG
CGTGTGAGGGAGTGGTACGGGTATCACTTTCCGGAGCTGGTGAAGATCATCAACGACAATGCCACATACTGCCGT
CTTGCCAGTTTATTGGAAACCGAAGGGAAGTGAATGAGGACAAGCTGGAGAAGCTGGAGGAGCTGACAATGGAT
GGGGCCAAGGCTAAGGCTATTCTGGATGCCTCACGGTCTCCTCCATGGGCATGGACATATCTGCCATTGACTTGATA
AACATCGAGAGCTTCTCCAGTCGTGTGGTGTCTTTATCTGAATACCGCCAGAGCCTACACACTTACCTGCGCTCC
AAGATGAGCCAAGTAGCCCCAGCCTGTGAGCCCTAATTGGGGAAGCGGTAGGTGCACGTCTCATCGCACATGCT
GGCAGCCTCACCAACCTGGCCAAGTATCCAGCATCCACAGTGCAGATCCTTGGGGCTGAAAAGGCCCTGTTCAGA
GCCCTGAAGACAAGGGGTAACACTCCAAAATATGGACTCATTTTCCACTCCACCTTCATTGGCCGAGCAGCTGCC
AAGAACAAGGCCGCATCTCCCGATACCTGGCAAACAATGCAGTATTGCCTCACGAATCGATTGCTTCTCTGAG
GTGCCCACGAGTGTATTGCGGGAGAAGCTTCGAGAACAAAGTTGAAGAGCGACTGTCTTCTATGAGACTGGAGAG
ATACCACGAAAGAAATCTGGATGTCTATGAAGGAAGCAATGGTTTCAGGCAGAGGCAGAGGAAGCGGCTGCTGAGATT
ACTAGGAAGCTGGAGAAACAGGAGAAGAAACGCTTAAAGAAGGAAAAGAAACGGCTGGCTGCACTTGCCCTCGCG
TCTTCAGAAAACAGCAGTAGTACTCCAGAGGAGTGTGAGGAGACGAGTGAAAAACCCAAAAAGAAGAAAAAGCAA
AAGCCCCAGGAGGTTCTCAGGAGAATGGAATGGAAGACCCATCTATCTCTTTCTCCAAACCCAAAGAAAAAGAAA
TCTTTTTTCAAGGAGGAGTTGATGAGTAGCGATCTTGAAGAGACCGCTGGCAGCACCAGTATTCCCAAGAGGAAG
AAGTCTACCCCAAGGAGGAAACAGTTAATGACCTGAGGAGGCAGGCCACAGAAGTCGGTCCAAGAAAAAGAGG
AAATTCTCCAAAGAGGAGCCGGTCAGCAGTGGGCCGTGAAGAGGCGGTTGGCAAGAGCAGCTCCAAGAAGAGAAA
AAGTTCCATAAAGCATCCAGGAAGATTAGCAATGCAAAATGGACATTCTCTGGGAGGTGGGGCATAACCATAGCCCA
AGGTGACATTTCCACCTGTGCCCGTGTTCCTCAATAAAAAACAAATTCACAAGAAAAAAAAAAAAAAAAAAAAA
TTCCTGAGGCCGCAAGGAATTC

112/2682
FIGURE 106

MAGRGAMVLLHVLFEHAVGYALVALKEVEEISLLQPQVEESVLNLGKFHSIVRLVAFCPFASSQVALENANAVSE
GVVHEDLRLLETHLPSSKKKVLLGVGDPKIGAAIQEELGYNCQTGGVIAEILRGVRLHFHNLVKGLTDLSACKA
QLGLGHSYSRAKVKFVNVNRVDNMIIQSISLLDQLDKDINTFSMRVREWYGYHFPPELVKIINDNATYCRLAQFIGN
RRELNEDKLEKLEELTMDGAKAKAILDASRSSMGMDISAIIDLINIESFSSRVVSLSEYRQSLHTYLRSKMSQVAP
SLSALIGEAVGARLIAHAGSLTNLAKYPASTVQILGAEKALFRALKTRGNTPKYGLIFHSTFIGRAAAKNKGRIS
RYLANKCSIASRIDCFSEVPTSVFGEKLEQVEERLSFYETGEIPRKNLDVMKEAMVQAEAEAAAAEITRKLEKQ
EKKRLKKEKKRLAALALASSESSSTPEECEETSEKPKKKKKQKPQEVPOENGMEDPSISFSKPKKKKSFSSKEEL
MSSDLEETAGSTSIPKRKKSTPKEETVNDPEEAGHRSRSKKKKRFSKEEPVSSGPEEAVGKSSSKKKKKFHKASQ
ED

113/2682
FIGURE 107

CGCAGCCGTGCGATGTTGTCCTCTACAGCCATGTATTTCGGCTCCTGGCAGAGACTTGGGGATGGAACCGCACAGA
GCCGCGGGCCCTTTGCAGCTGCGATTTTCGCCCTACGTTTTCAACGGAGGTACTATACTGGCAATTGCTGGAGAA
GATTTTGCAATTGTTGCTTCTGATACTCGATTGAGTGAAGGGTTTTCAATTCATACGCGGGATAGCCCCAAATGT
TACAAATTAACAGACAAAACAGTCATTGGATGCAGCGGTTTTCATGGAGACTGTCTTACGCTGACAAAGATTATT
GAAGCAAGACTAAAGATGTATAAGCATTCCAATAATAAGGCCATGACTACGGGGGCAATTGCTGCAATGCTGTCT
ACAATCCTGTATTCAAGGCGCTTCTTCCATACTATGTTTACAACATCATCGGTGGACTTGATGAAGAAGGAAAG
GGGGCTGTATACAGCTTTGATCCAGTAGGGTCTTACCAGAGAGACTCCTTCAAGGCTGGAGGCTCAGCAAGTGCC
ATGCTACAGCCCTGCTTGACAACCAGGTTGGTTTTAAGAACATGCAGAATGTGGAGCATGTTCCGCTGTCCTTG
GACAGAGCCATGCGGCTGGTGAAAGATGTCTTCATTTCTGCGGCTGAGAGAGATGTGTACACTGGGGACGCACTC
CGGATCTGCATAGTGACCAAAGAGGGCATCAGGGAGGAACTGTTTCCTTAAGGAAGGACTGATCTGTGTGCTCT
TATCACCAATCAGTTCAGACCTGGTTGATTTTGACTTTGGAACGTACCTTGATGGTTTTGTTTATTAAAA

114/2682
FIGURE 108

MLSSTAMYSAPGRDLGMEPHRAAGPLQLRFSPYVFNGGTILAIAGEDFAIVASDTRLSEGFSIHTRDSPKCYKLT
DKTVIGCSGFHGDCLTLTKIIEARLKMYKHSNNKAMTTGAIAAMLSTILYSRRFFPYVYNIIGGLDEEGKGAVY
SFDPVGSYQRDSFKAGGSASAMLQPLLDNQVGFKNMQNVEHVPLSLDRAMRLVKDVFISAAERDVYTGDAIRICI
VTKEGIREETVSLRKD

115/2682
FIGURE 109

ATGCCCGAGAATGTGGCACCCCGGAGCGGGGCGACTGCCGGGGCTGCCGGCGGCCGCGGGAAAGGCGCCTATCAG
GACCGCGACAAGCCAGCCAGATCCGCTTCAGCAACATTTCGCGCCCAAAGCGGTTGCTGATGCTATTAGAACA
AGCCTTGGACCAAAAGGAATGGATAAAATGATTCAAGATGGAAAAGGTGATGTAACCATTACAAATGATGGTGCT
ACCATTCTGAAACAAATGCAAGTATTACATCCAGCAGCCAGAATGCTGGTGGAGCTGTCTAAGGCTCAAGATATA
GAAGCAGGAGATGGCACCACATCAGTAGTCATCATTGCTGGCTCCCTCTTAGATTCTTGTACCAAGCTTCTTCAG
AAAGGGATTTCATCCAACCATCATTCTGAGTCATTCCAGAAGGCCCTGGAAAAGGGCATTGAAATCTTGACTGAC
ATGTCCTCGACCTGTGGAACTGAGTGACAGAGAACTTTGTTAAATAGTGCAACCACTTCCTGAACTCAAAGGTG
GTTTCTCAGTATTCAAGTCTGCTTTCTCCAATGAGTGTAAATGCAGTGATGAAAGTGATTGACCCAGCCACAGCC
ACCACTGTAGATCTTAGAGATATTTAAATAGTTAAGAAGCTTGGTGGGACAATTGATGACTGTGAGTTGGTGGAA
GGGCTGGTCTCACCCAAAAGTGTCAAATCTGGCATAACCAGAGTTGAAAAGGCCAAGATTGGGCTTATTTCAG
TTTTGCTTATCTGCTCCCAAAACAGACATGGATAATCAAATAGTGGTTTCTGACTATGCCAGATGGACCGAGTG
CTGCCGAGAAGAGAGAGCCTATATTTTAAATTTAGTGAAGCAAATTAACAAAACAGGATGTAATGTCCTTCTCATA
CAGAAATCTATTCTAAGAGATGCTCTTAGTGATCTTGCATTACACTTTCTGAATAAAATGAAGATCATGGTGATT
AAGGATATTGAAAGAGAAGACATTGAATTCATTTGTAAGACAATTGGAACCAAGCCAGTTGCTCATATTGACCAA
TTTACTGCTGACATGCTGGGTTCTGCTGAGTTAGCTGAGGAGGTCAATTTAAATGGTTCTGGCAAACCTGCTCAAG
ATTACAGGCTGTGCCAGCCCTGGAAAAACAGTTACAATTGTTGTTTCGTGGTTCTAACAAACTGGTGATTGAAGAA
GCTGAGCGCTCCATTTCATGATGCCCTATGTGTTATTGTTGTTTGTGTTAGTGAAGAAGAGGGCTCTTATTGCAGGAGGT
GGTGCTCCAGAAATAGAGTTGGCCCTAGCATTAACTGAATATTACGAACACTGAGTGGTATGGAATCCTACTGC
GTTTCGTGCTTTTGCAGATGCTATGGAGGTCATTCCATCTACACTAGCTGAAAATGCCGGCCTGAATCCCATTTCT
ACAGTAACAGAACTAAGAAACCGGCATGCCAGGGAGAAAAAACTGCAGGCATTAAATGTCCGAAAGGGTGGTATT
TCCAACATTTTGGAGGAACTGGTTGTCCAGCCTCTGTTGGTATCAGTCAGTGCTCTGACTCTTGCAACTGAACT
GTTTCGGAGCATTTCTGAAAATAGATGATGTGGTAAACACTCGATTAATCTGGATAACTGACTAGCACCATTATGATC
ACCAGTATTGTGGCTGGAATGGAAGAAGATCACCTTGGTGTTCCTTGTGTTGGAAGATTATTTCTCTGAATTTCT
GGGCTTGGTCTTCCAGTTGGCATTTCCTGAAGTTGTATTGAAACAATTTAATGAAAATATTAATATTTGGTTT
CAAAAGGCAGATTTATCTTCTCCCAACATTCTGTTATTCTGATACTTTTGAAAACTAATAAACTAATAAAA
GAAGCGTA

116/2682
FIGURE 110

MPENVAPRSGATAGAAGGRGKGAYQDRDKPAQIRFSNISAAKAVADAI RTS LGPKGMDKMIQDGKGDVTITNDGA
TILKQMQLVHHPAARMLVELSKAQDIEAGDGTTSVVIIAGSLLDSCTKLLQKGIHPTIISESFQKALEKGIEILTD
MSRPVELSDRETLLNSATTSLNSKVVSQYSSLLSPMSVNAVMMKVIDPATATSVDLRDIKIVKKLGGTIDDCELVE
GLVLTQKVSNSGITRVEKAKIGLIQFCLSAPKTDMDNQIVVSDYAQMDRVLREERAYILNLVKQIKKTGCNVLLI
QKSILRDALSDLALHFLNKMIMVIKDIEREDIEFICKTIGTKPVAHIDQFTADMLGSAELAEVNLNGSGKLLK
ITGCASPGKTVTIVVRGSNKLVIIEEAERSIHDALCVIRCLVKKRALIAGGGAPEIELALALTEYSRTLSGMESYC
VRAFADAMEVIPSTLAENAGLNPISTVTELRNRHAQGEKTAGINVRKGGISNILEELVVQPLLVSVSALTTLATET
VRSILKIDDVVNTR

117/2682
FIGURE 111

CTGCGGCGCGCCGGGCGGAACCTTTCTAGAACGCTCGGTGAGAGGCGGAGGAGCGGTAACACCCCGGCTGCGCAC
AGCTCGGCGCTCCTTCCCGCTCCCTCACACACCGGCTCAGCCCGCACCGGCAGTAGAAGATGGTGAAAGAAACA
ACTTACTACGATGTTTTGGGGGTCAAACCCAATGCTACTCAGGAAGAATTGAAAAAGGCTTATAGGAAACTGGCT
TTGAAGTACCATCCTGATAAGAACCCAAATGAAGGAGAGAAGTTTTAAACAGATTTCTCAAGCTTACGAAGTTCTC
TCTGATGCAAAGAAAAGGGAATTATATGACAAAGGAGGAGAACAGGCAATTAAAGAGGGTGGAGCAGGTGGCGGT
TTTGGCTCCCCATGGACATCTTTGATATGTTTTTTGGAGGAGGAGGAAGGATGCAGAGAGAAAGGAGAGGTAAA
AATGTTGTACATCAGCTCTCAGTAACCTTAGAAGACTTATATAATGGTGCAACAAGAAAAGTGGCTCTGCAAAAG
AATGTGATTTGTGACAAATGTGAAGGTAGAGGAGGTAAAGAAAGGAGCAGTAGAGTGCTGTCCCAATTGCCGAGGT
ACTGGAATGCAAATAAGAATTCATCAGATAGGACCTGGAATGGTTCAGCAAATTCAGTCTGTGTGCATGGAGTGC
CAGGGCCATGGGGAGCGGATCAGTCTTAAAGATAGATGTAAAAGCTGCAACGGAAGGAAGATAGTTTCGAGAGAAG
AAAATTTTAGAAGTTCATATTGACAAAGGCATGAAAGATGGCCAGAAGATAACATTCCATGGTGAAGGAGACCAA
GAACAGGACTGGAGCCAGGCGATATTATCATTGTGTAGATCAGAAGGACCATGCTGTGTTTTACTCGACGAGGA
GAAGACCTTTTCATGTGTATGGACATACAGCTCGTTGAAGCACTGTGTGGCTTCCAGAAGCCAATATCTACTCTT
GACAACCGAACCATCGTCATCACCTCTCATCCAGGTCAGATTGTCAAGCATGGAGATATCAAGTGTGTACTAAAT
GAAGGCATGCCAATTTATCGTAGACCATATGAAAAGGGTCGCCAATCATCGAATTTAAGGTAAACTTTCTGAG
AATGGCTTTCTCTCTCTGATAAACTGTCTTTGCTGGAAAACTCCTACCCGAGAGGAAGGAAGTGAAGAGACT
GATGAGATGGACCAAGTAGAACTGGTGGACTTTGATCCAAATCAGGAAAGACGGCGCCACTACAATGGAGAAGCA
TATGAGGATGATGAACATCATCCAGAGGTGGTGTTCAGTGTGACACCTCTTAATGGGCCAGTGAATAACACTCA
CTGCTGGCATTAAATGTGCAGTAGTGAATGAGTGAAGGACTGTAAATCATAATATGCTCACTACTTGTCTTGT
TTGTTTTAATAAACTATAGTAGTGTGTTTTAAAAAGTTAAATGAAGAATAAACGCAAAATATAAAAGCTCTGATTTG
CCCTGTATGTATGATGACTTCAGTGTGCAAGATGAAGTTTTAATACCTGTAAAAACTACAAAGAAGTTCCCTAGC
ATTTCTAGGCCAAACCTTGTAATTGACTTCAGCTATGTACGTGGACAAGCTTAGACTGAAATGCTAGGTATATGT
ATTGGCTTCAGTGTATGACCCCTTCATTGTTAAGCTATGAAAGTAAACTCTGTATTTAACTGGCAATGAGGAAAA
AAAAATTTGTAGAGAAGTGTGGTCTGTATAGTTCTTTATATTAAGTGGGATTCATTGTAATGCCTCTGCATTT
ATTCTGTTGCCTCAGCTGTTACTTGAAGATGGCGTAATATATAATTTATCCTGTGGTATCAGTGATAAAATGAT
ACCTTTCTGTAGGAGGGGTTTATCATAATATGCTGCTTCTTGAAGGCTTGCACTTCCAGAATTGTGTTTCTTCT
GCTGTGCCATTATATATATATACATATATATATATAATCTTGACCAGTCCTGGTCATTTGCTCCCTCCTTGTC
TGTGGACCATGATAAGCCCAAGTAGTGACTTCAGAGCTGGGTAACAGAAATTAAAGTGAAAAGACCTTTACGTGG
AGAATTTGCATGCGTAATATAGGAAGGTGTTCTTTAGGTATGTTACAGGATTACTTTAAACCATTGACTTTTCGC
TCCAAAGTTATGTTGGTAGTATAGCAAATTATGATGAATAGCTTTAATTGTATGTTAAAAGTCTCATATGTTCA
CATGCTTAAATCTGGGTATCAGAATTTAAGCAATCTTGAATGTATTGTCTCCTTAATATACTAATTACAAAGC
ATCTCCAATGTGTGTCACCTACAGGCTTTTTTTTCCAGATCATCAAATTTGGCTTTTAACTAAGATACATAGCT
TTATTTTAGCTAGTCTGAATGAGTGATACAAAAATACTATTGAACTATAGTTAAATAATATTAAATAGGATGGAG
AGTAAAGTGGAGGACTGGGTAATGAGCCAAGAAGAAGGGTG

118/2682
FIGURE 112

MVKETYYDVLGVKPNATQEELKKAYRKLALKYHPDKNPNEGEKFKQISQAYEVLSDAKKRELYDKGGEQAIKEG
GAGGGFGSPMDIFDMFFGGGGRMQRERRRGKNVVHQLSVTLEDLYNGATRKLALQKNVICDKCEGRGGKKGAVECC
PNCRGTMQIRIHQIGPGMVQQIQSVCMECQGHGERISPKDRCKSCNGRKIVREKKILEVHIDKGMKDGQKITFH
GEGDQEPGLEPGDIIIVLDQKDHAVFTRRGEDLFMCMDIQLVEALCGFQKPISTLDNRTIVITSHPGQIVKHGDI
KCVLNEGMPYIYRRPYEKGRLLIEFKVNFPENGFLSPDKLSLLEKLLPERKEVEETDEMDQVELVDFDPNQERRRH
YNGEAYEDDEHHPRGGVQCQTS

119/2682
FIGURE 113

CGGTAAC TACCCCGGCTGCGCACAGCTCGGCGCTCCTTCCCGCTCCCTCACACACCGCCTCAGCCCGCACCGGCA
GTAGAAGATGGTGAAAGAAACAACCTTACTACGATGTTTTGGGGGTCAAACCCAATGCTACTCAGGAAGAATTGAA
AAAGGCTTATAGGAACTGGCCTTGAAGTACCATCCTGATAAGAACCCAAATGAAGGAGAGAAGTTAAACAGAT
TTCTCAAGCTTACGAAGTTCTCTCTGATGCAAAGAAAAGGGAATTATATGACAAAGGAGGAGAACAGGCAATTAA
AGAGGGTGGAGCAGGTGGCGGTTTTGGCTCCCCATGGACATCITTGATATGTTTTTGGAGGAGGAGGAAGGAT
GCAGAGAGAAAGGAGAGGTAAAAATGTTGTACATCAGCTCTCAGTAACCTAGAAAGACTTATATAATGGTGCAAC
AAGAAAAC TGGCTCTGCAAAGAATGTGATTGTGACAAATGTGAAGGTAGAGGAGGTAAGAAAGGAGCAGTAGA
GTGCTGTCCCAATTGCCGAGGTACTGGAATGCAAATAAGAATTCATCAGATAGGACCTGGAATGGTTCAGCAAAT
TCAGTCTGTGTGCATGGAGTGCCAGGGCCATGGGGAGCGGATCAGTCCTAAAGATAGATGTAAAAGCTGCAACGG
AAGGAAGATAGTTTCGAGAGAAGAAAATTTTAGAAGTTTCATATTGACAAAGGCATGAAAGATGGCCAGAAGATAAC
ATTCCATGGTGAAGGAGACCAAGAACCAGGACTGGAGCCAGGCGATATTATCATTGTGTGTAGATCAGAAGGACCA
TGCTGTTTTTACTCGACGAGGAGAAGACCTTTTCATGTGTATGGACATACAGCTCGTTGAAGCACGTGTGTGGCTT
CCAGAAGCCAATATCTACTCTTGACAACCGAACCATCGTCATCACCTCTCATCCAGGTCAGATTGTCAAGCATGG
AGATATCAAGTGTGTACTAAATGAAGGCATGCCAATTTATCGTAGACCATATGAAAAGGGTGCCTAATCATCGA
ATTTAAGGTAACTTTCTGAGAATGGCTTTCTCTCTCCTGATAAACTGTCTTTGCTGGAAAACTCCTACCCGA
GAGGAAGGAAGTGGAAGAGACTGATGAGATGGACCAAGTAGAACTGGTGGACTTTGATCCAAATCAGGAAAAGACG
GCGCCACTACAATGGAGAAGCATATGAGGATGATGAACATCATCCCAGAGGTGGTGTTCAGTGTGAGACCTCTTA
ATGGCCAGTGAATAACACTCACTGCTGGCATTTAATGTGTCAGTAGTGAATGAGTGAAGGACTGTAATCATAATAT
GCTCACTACTTGCTCTTGTTTTGTTTTAATAAACTATAGTAGTGTATAAAAAGTTAAATGAAGAATAAACGCA
AATATAAAAGCTC

120/2682
FIGURE 114

MVKETTYDVLGVKPNATQEELKKAYRKLALKYHPDKNPNEGEKFKQISQAYEVLSDAKKRELYDKGGEQAIKEG
GAGGGFGSPMDIFDMFFGGGGRMQRERRGKNVVHQLSVTLEDLYNGATRKLALQKNVICDKCEGRGGKKGAVECC
PNCRGTMQIRIHQIGPMVQQIQSVCMQCQGHGERISPKDRCKSCNGRKIVREKKILEVHIDKGMKDGGKITFH
GEGDQEPGLEPGDIIIVLDQKDHAVFTRRGEDLFMCMDIQLVEALCGFQKPISTLDNRTIVITSHPGQIVKHGDI
KCVLNEGMPYRRPYEKGRLLIEFKVNFPENGFLSPDKLSLLEKLLPERKEVEETDEMDQVELVDFDPNQERRRH
YNGEAYEDDEHHPRGGVQCQTS

121/2682
FIGURE 115

GGGCGGGGTGCCGCATCCCCAGCCCGCCGCCATGGCCGCTACAAACTGGTGCTGATCCGGCACGGCGAGAGCGC
ATGGAACCTGGAGAACCGCTTCAGCGGCTGGGTACGACGCCGACCTGAGCCCGGCGGGCCACGAGGAGGCGAAGCG
CGGCGGGCAGGCGCTACGAGATGCTGGCTATGAGTTTGACATCTGCTTCACCTCAGTGCAGAAGAGAGCGATCCG
GACCCTCTGGACAGTGCTAGATGCCATTGATCAGATGTGGCTGCCAGTGGTGAGGACTTGGCGCCTCAATGAGCG
GCACTATGGGGGTCTAACCGGTCTCAATAAAGCAGAACTGCTGCAAAGCATGGTGAGGCCAGGTGAAGATCTG
GAGGCGCTCCTATGATGTCCCACCACCTCCGATGGAGCCCCGACCATCCTTTCTACAGCAACATCAGTAAGGATCG
CAGGTATGCAGACCTCACAGAAGATCAGTACCCTCCTGTGAGAGICTGAAGGATACTATTGCCAGAGCTCTGCC
CTTCTGGAATGAAGAAATAGTTCCCCAGATCAAGGAGGGGAAACGTGTACTGATTGCAGCCCCATGGCAACAGCCT
CCGGGGCATTGTCAAGCATCTGGAGGGTCTCTCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATTCC
CATTGTCTATGAATTGGACAAGAATTGAAGCCTATCAAGCCCATGCAGTTTCTGGGGGATGAAGAGACGGTGCG
CAAAGCCATGGAAGCTGTGGCTGCCAGGGCAAGGCCAAGAAGTGAAGGCCGGCGGGGAGGATACTGTCCCCAGG
AGCACCTCCCTGCCCGTCTTGTCCCTCTGCCCCCTCCACCTGCACATGTCACACTGACCACATCTGTAGACATC
TTGAGTTGTAGCTGCAGACGGGGACCAGTGGCTCCCATTTTCATTTTAGCCATTTTGTGCGCTGCACCCACTCCC
TTCATACAATCTAGTCAGAAATAGCAGTTCTAGAGCACAGGTTCTCAGTCTAAGCTATGGAAAAGCTCCCCTTATC
CAACAGAGTTTAAAAGTAGTGACTTGGGTTTTTGCGAGTGCTTGTGTTACTAAGGACTTTGGGGAGGAACCATGC
TAAGCCATGACCAGTGAGGAGAAGCAACAGAGCCTGTCTGTCCCCATGAGCGGAGTCTGTCTCTGCTCTTCTGC
AGTCAGGTCACTGCCTACTGCCTGGGGGCTCTAGTCATTCCAGTGGAAGACGAATGTAACCTGCGTGGTGATGTG
ACAACTGTTTCCTCCCTGACCCAGAGGATCTGGCTCTAGGTTGGGATCAATCCTGAATTTGTTATGTGTTAAT
TTACTTTTATTAATAAAGTATAGTATATATAATAACAAACAATAACCCCTTCTGGGGTTTCTTGTGGCGGTTGAAA
TAGTCCCACATGTGGTCATCAGAAATAGCATTCTCATACCAATATAGGATCAGCTCCTTGACCTCTGAGGGGTC
AGGAGTGCTTCCTGGTGTGTGATTAGAATCCCTTCCTGCCTTGTTCATGGCAGTGAAATGCCTCTTGGTCTGT
TCCAGTGATCTTTCAGTATTTCTGAATCATGTTCTAGTTGCTTGACCCTGCCACATGGGTCCAGTGTTTCATCT
GAGCATAACTGTACTAAATCCTTTTTCCATATCAGTATAATAAAGGAGTGATGTGCAAT

122/2682
FIGURE 116

MAAYKLVLRHGESAWNLENRFSGWYDADLSPAGHEEAKRGGQALRDAGYEFDICFTSVQKRAIRTLWTVLDAID
QMWLPVVRTWRLNERHYGGLTGLNKAETAAKHGAEQVKIWRRSYDVPPPPMEPDHFPYSNISKDRRYADLTEDQL
PSCESLKDTIARALPFWNEEIVPQIKEGKRVLIAAHGNSLRGIVKHLEGLSEEAIMELNLPTGIPIVYELDKNLK
PIKPMQFLGDEETVRKAMEAVAAQGKAKK

123/2682
FIGURE 117

GAATTCGGCACGAGGGCGACCGGCGCGTCGTGCGGGGCTGCGGCGGAGCCTCCTTAAGGAAGGTGCAAGAGGTTG
GCAGCTTCGATTGAAGCACATCGACCGGCGACAGCAGCCAGGAGTCATGAGCGACAGCGGCGAGCAGAACTACGG
CGAGCGGGAATCCCGTTCTGCTTCCAGAAGTGGAAGTGCTCACGGATCGGGGAAATCTGCAAGGCATACCCCTGC
AAGGTCTCGCTCCAAGGAAGATTCCAGGCGTTCCAGATCAAAGTCCAGGTCCCGATCTGAATCTAGGTCTAGATC
CAGAAGAAGCTCCCGAAGGCATTATACCCGGTCACGGTCTCGCTCCCGCTCCCATAGACGATCACGTAGCAGGTG
TTACAGTCGAGATTATCGTAGACGGCACAGCCACAGCCATTCTCCCATGTCTACTCGCAGGCGTCATGTTGGGAA
TCGGGCAAATCCTGATCCTAACTGTTGTCTTGGAGTATTGGGCTGAGCTTGTACACCACAGAAAGAGATCTAAG
AGAAGTGTTCTCTAAATATGGTCCCATTGCCGATGTGTCTATTGTATATGACCAGCAGTCTAGGCGTTCAAGAGG
ATTTGCCTTTGTATATTTGAAAATGTAGATGATGCCAAGGAAGCTAAAGAACGTGCCAATGGAATGGAGCTTGA
TGGGCGTAGGATCAGAGTTGATTTCTCTATAACAAAAAGACCACATACGCCAACACCAGGAATTTACATGGGGAG
ACCTACCTATGGCAGCTCTCGCCGTCGGGATTACTATGACAGAGGATATGATCGGGGCTATGATGATCGGGACTA
CTATAGCAGATCATAACAGAGGAGGAGGTGGAGGAGGAGGAGGATGGAGAGCTGCCCAAGACAGGGATCAGATTTA
TAGAAGGCGGTCACCTTCTCCTTACTATAGTCGTGGAGGATACAGATCACGTTCCAGATCTCGATCATACTACC
TCGTCGCTATTAAAGCATGAAGACTTTCTGAAACCTGCCCTAGAGCTGGGATATTGTTTGTGGGCAATATTTTTT
ATTGCTCTTGTGTTAAAAAGTGAACAGTGCCTAGTGAAGTTAGGTGACTTTTACACCTTTTACGATGACTACTTT
TGGTGGAGTTGAAATGCTGTTTTTCACTTCTGCATTGTGTAGTTTGGTGCCTTGTTCGAAGTTAAGTGTTCAG
AAAGTATGTTTTGTCATGATTTTTTTACAGTCTAAATTTTGACTGCTGAGAAGTTTCTATTGTACAAAACCTTCAT
TTAAAAGGTTTTTCTACTGAATCCAGGGTATTCTGAAGATCGAAGCCTGTGTAAAATGCTACCAAATGGCAAAAA
GCAACAATAAACAGTTTGATTTTTTACTTTTTCTTCTAACATATCAATGCTTAGCAGAACTATTGAGATTGTCAGT
AGTAAATTTAAAGACAAATGCCCGTTTTCTCCAGTCCATGAAACATACCATACTTATATACCTGCAACTAAGTG
TTTTAAATTTATGCTCTGTAACCTCTGTACTGCTAGTATTAGAACTAAAAATCTTAAAATACAGCCAGTGCTTAATG
CTTATATCAATGTGGATTTGTCGGCTTTTTATGTAATCTGTAATATGTATAGCAGGAAATACGAAGAGTTACACAG
TGTATGCCCTTAAAAGGCTGTTTCTTAAAGGTGTTACAAGGGGATAATGGTATTTCAACTAGTTATCAGCAAGTGA
CAATACATTCACCACAAATACACTCTTGTTCTTCTAGCTTTTAGACTATATGAAAAAACCGGGTGCTTCAAAGT
ACATGATAAGGGAACACTATACCTGTCATGGATGAAGTGAAGACTTTGCCTGTTTCAATTTTTTAAATATTATTTTC
AGGTCTTTTGCTTACCAAAGGAGGCCCAATTTCACTCAAATGTTTTGAGAAGTGTGTTAAATAAACGCAAATGA
AAAGAAAAAAAAAAAAAAAAAAAA

124/2682
FIGURE 118

MSDSGEQNYGERESRSASRSGSAHGSGKSARHTPARSRSKEDSRRSRSKSRSESRSRSSRRHYTRSRSR
RSHRRSRSRSYSRDYRRRHSHSHSPMSTRRRHVGNRANPDNCCLGVFGLSLYTTERDLREVFSKYGPIADVSI
YDQQRSSRGFAFVYFENVDDAKEAKERANGMELDGRRIRVDFSITKRPHTPTPGIYMGRPTYGSSRRRDYYDRG
YDRGYDDRDYYSRSGGGGGGGWRAAQDRDQIYRRRSPSPYYSRGGYRSRSRSYSPRY

125/2682
FIGURE 119

ATACACGTGCCATGTGCAGCATGAGGGGCTACCCGAGCCCGTCACCCTGAGATGGAAGCCGGCTTCCCAGCCCAC
CATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGGATCTGTGGTCTCTGGAGCTGTGGTTGCTGCTGT
GATATGGAGGAAGAAGAGCTCAGGTGGAAGAGGAGGAGCTACTCTAAGGCTGAGTGGAGCGACAGTCCCCAGGG
GTCTGAGTCTCACAGCTTGTAAGCCTGAGACAGCTGCCTTGTGTGCGACTGAGATGCACAGCTGCCTTGTGTGC
GACTGAGATGCAGGATTTCTCACGCCTCCCCTATGTGCTTAGGGGACTCTGGCTTCTCTTTTIGCAAGGGCCT
CTGAATCTGTCTGTGTCCCTGTAGCACAATGTGAGGAGGTAGAGAAACAGTCCACCTCTGTGTCTACCATGACC
CCCTTCTCACACTGACCTGTGTTCCCTTCCCTGTTCTCTTTTCTATTAATAAATAAGAACCTGGGCAGAGTGCGGC
AGCTCATGCCGTGTAATCCAGCACTTAGGGAGGCCGAGGAGGGCAGATCACGAGGTCAGGAGATCGAAACCATCC
TGGCTAACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAAATTAGCTGGGCGCAGAGGCACGGGCCTGTAG
TCCCAGCTACTCAGGAGGCGGAGGCAGGAGAATGGCGTCAACCCGGGAGGCGGAGGTTGCAGTGAGCCAGGATTG
TGCGACTGCACTCCAGCCTGGGTGACAGGGTGAAACGCCATCTCAAAAAATAAAAAATAAAAAATAAAAAAGAA
CCTGGATCTCAATTTAATTTTTCATATTCTTGCAATGAAATGGACTTGAGGAAGCTAAGATCATAGCTAGAAATA
CAGATAATTCCACAGCACATCTCTAGCAAATTTAGCCTATTCTCTAGCCTATTCTTACCACCTGTAAT
CTTGACCATATACCTTGGAGTTGAATATTGTTTTCATACTGCTGTGGTTTGAATGTTCCCTCCAACACTCATGTT
GAGACTTAATCCCTAATGTGGCAATACTGAAAGGTGGGGCCTTTGAGATGTGATTGGATCGTAAGGCTGTGCCTT
CATTATGGGTAAATGGATTAAATGGGTTATCACAGGAATGGGACTGGTGGCTTTATAAGAAGAGGAAAAGAGAAC
TGAGCTAGCATGCCCCAACCCACAGAGAGCCTCCACTAGAGTGATGCTAAGTGGAATGTGAGGTGCAGCTGCCAC
AGAGGGCCCCCACCAGGGAATGTCTAGTGTCTAGTGGATCCAGGCCACAGGAGAGAGTGCCCTTGTGGAGCGCTG
GGAGCAGGACCTGACCACCACCAGGACCCAGAAGTGTGGAGTCAGTGGCAGCATGCAGCGCCCCCTTGGGAAAG
CTTTAGGCACCAGCCTGCAACCCATTGAGCAGCCACGTAGGCTCGACCCAGCAAAGCCACAGGCACGGGGCTAC
CTGAGGCCTTGGGGGCCAATCCCTGCTCCAGTGTGTCCGTGAGGCAGCACACGAAGTCAAAAGAGATTATCTCTT
CCCACAGATACCTTTTCTCTCCCATGACCCTTTAACAGCATCTGCTTCATTCCCTCACCTTCCCAGGCTGATCT
GAGGTAACTTTGAAGTAAAATAAAAGCTGTGTTTGAGCATC

126/2682
FIGURE 120

ATGGGGCATCGGCCGGTGCTCGTGCTCAGCCAGAACACAAAGCGTGAATCCGGAAGAAAAGTTCAATCTGGAAAC
ATCAATGCTGCCAAGACTATTGCAGATATCATCCGAACATGTTTGGGACCCAAGTCCATGATGAAGATGCTTTTG
GACCCAATGGGAGGCATTGTGATGACCAATGATGGCAATGCCATTCTTCGAGAGATTCAAGTCCAGCATCCAGCG
GCCAAGTCCATGATCGAAATTAGCCGGACCCAGGATGAAGAAGTTGGAGATGGGACCACATCAGTAATTATTCTT
GCAGGGGAAATGCTGTCTGTAGCTGAGCACTTCCTGGAGCAGCAGATGCACCCAACAGTGGTGATCAGTGCTTAC
CGCAAGGCATTGGATGATATGATCAGCACCCCTAAAGAAAATAAGTATCCCAGTGCACATCAGTGACAGTGATATG
ATGCTGAACATCATCAACAGCTCTATTACTACCAAAGCCATCAGCCGGTGGTCATCTTTGGCTTGCAACATTGCC
CTGGATGCTGTCAAGATGGTACAGTTTGAGGAGAATGGTCGGAAAGAGATTGACATAAAAAAATATGCAAGAGTG
GAAAAGATACCTGGAGGCATCATTGAAGACTCCTGTGTCTTGCGTGGAGTCATGATTAACAAGGATGTGACCCAT
CCACGTATGCGGCGCTATATCAAGAACCCTCGCATTGTGCTGCTGGATTCTTCTCTGGAATAACAAGAAAGGAGGA
AGCCAGACTGACATTGAGATTACACGAGAGGAGGACTTCACCCGAATTCTCCAGATGGAGGAAGAGTACATCCAG
CAGCTCTGTGAGGACATTATCCAACCTGAAGCCGATGTGGTCATCACTGAAAAGGGCATCTCAGATTTAGCTCAG
CACTACCTTATGCGGGCCAATATCACAGCCATCCGCAGAGTCCGGAAGACAGACAATAATCGCATTGCTAGAGCC
TGTGGGGCCCGGATAGTCAGCCGACCAGAGGAAGTGAAGAGAAGATGATGTTGGAACAGGAGCAGGCCTGTTGGAA
ATCAAGAAAATTGGAGATGAATACTTTACTTTTCACTACTGACTGCAAAGACCCCAAGGCCCTGCACCATTCTCCTC
CGGGGGGCTAGCAAAGAGATTCTCTCGGAAGTAGAACGCAACCTCCAGGATGCCATGCAAGTGTGTGCAATGTT
CTCCTGGACCCTCAGCTGGTGCCAGGGGGTGGGGCCTCCGAGATGGCTGTGCGCCATGCCTTGACAGAAAAATCC
AAGGCCATGACTGGTGTGGAACAATGGCCATACAGGGCTGTTGCCAGGCCCTAGAGGTCAATCCTCGTACCCTG
ATCCAGAAGTGTGGGGCCAGCACCATCCGTCTACTTACCTCCCTTCGGGGCCAAGCACACCCAGGAGAACTGTGAG
ACCTGGGGTGIAAATGGTGAGACGGGTACTTTGGTGACATGAAGGAAGTGGGCATATGGGAGCCATTGGCTGTG
AAGCTGCAGACTTATAAGACAGCAGTGGAGACGGCAGTTCTGCTACTGCGAATTGATGACATCGTTTCAGGCCAC
AAAAAGAAAGGCGATGACCAGAGCCGGCAAGGCGGGGCTCCTGATGCTGGCCAGGAGTGAAGTCTAGGCAAGGCT
ACTTCAATGCACAGAACCAGCAGAGTCTCCCTTTTCTGAGCCAGAGTGCCAGGAACACTGTGGACGTCTTTGT
TCAGAAGGGATCAGGTTGGGGGGCAGCCCCCAGTCCCTTTCTGTCCCAGCTCAGTTTCCAAAAGACACTGACAT
GTAATTCTTCTATTGTAAGGTTTCCATTAGTTTGTTCGATGATTAAATCTAAGTCATTGAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

127/2682
FIGURE 121

MGHRPVLVLSQNTKRESGRKVQSGNINAAKTIADIIRTCLGPKSMMKMLLDPMGGIVMTNDGNAILREIQVQHPA
AKSMIEISRTQDEEVGDGTTSVIILAGEMLSVAEHFLEQQMHPTVVISAYRKALDDMISTLKKISIPVDISDSM
MLNIINSSITTKAISRWSSLACNIALDAVKMVQFEENGRKEIDIKKYARVEKIPGGIIEDSCVLRGVMINKDVTH
PRMRRYIKNPRIVLLDSSLEYKKGGSQTDIEITREEDFTRILQMEEYIQQLCEDIIQLKPDVVITEKGISDLAQ
HYLMRANITAIRRVKTDNNRIARACGARIVSRPEELREDDVGTGAGLLEIKKIGDEYFTFITDCKDPKACTILL
RGASKEILSEVERNLDAMQVCRNVLLDPQLVPGGGASEMAVAHALTEKSKAMTGVEQWPYRAVAQALEVIPRTL
IQNCGASTIRLLTSLRAKHTQENCETWGVNGETGTLVDMKELGIWEPLAVKLQTYKTAVETAVLLLRIDDIVSGH
KKKGDDQSRQGGAPDAGQE

128/2682
FIGURE 122

GGCACGAGGACCGACCGCATTGCGGCTTGGTTTTCTACCCAGTGCATGTGGCAGGAGCGGTGAGATCACTGCCT
CACGGCGATCCTGGACTGACGGTCACGACTGCCTACCTCTAACCCCTGTTCTGAGCTGCCCTTGCCACACACC
CCAAACCTGTGTGCAGGATCCGCCTCCATGGAGCTACAGCCTCCTGAAGCCTCGATCGCCGTCGTGTGATTCCG
CGCCAGTTGCCTGGCTCACATTGCGAGGCTGGTGTCCAGGGTCTCAGCGCGGGGACGACTCAGAGTTGGGGTCT
CACTGTGTTGCCAGACTGGTCTCGAACTCTTGGCCTCAGGTGATCCTCTTCCCTCAGCTTCCAGAAATGCCGAG
ATGATAGAGACGGGGTCTGACTGTGTTACCCAGGCTGGTCTTCAACTCTTGGCCTCAAGTGATCCTCCTGCCTTA
GCTTCCAAGAATGCTGAGGTTACAGGCACCATGAGCCAGGACACCGAGGTGGATATGAAGGAGGTGGAGCTGAAT
GAGTTAGAGCCCCGAGAAGCAGCCGATGAACGCGGCGTCTGGGGCGGCCATGTCCCTGGCGGGAGCCGAGAAGAAT
GGTCTGGTGAAGATCAAGGTGGCGGAAGACGAGGCGGAGGCGGCGAGCCGCGGCTAAGTTACGGGGCTGTCCAA
GAGGAGCTGCTGAAGGTGGCAGGACGCCCCGGCTGGGTACGACCCGCTGGGCACTGCTGCTGCTCTTCTGGCTC
GGCTGGCTCGGCATGCTTGGCTGGTGGCGTGGTCAATAATCGTGCGAGCGCCGCTTGTGCGAGCTACCGGCGCAG
AAGTGGTGGCACACGGGGCCCTCTACCGCATCGGCGACCTTCAGGCCTTCCAGGGCCACGGCGCGGGCAACCTG
GCGGGTCTGAAGGGGCGTCTCGATTACCTGAGCTCTCTGAAGGTGAAGGGCTTGTGCTGGGTCCAATTACAAAG
AACCAGAAGGATGATGTGCTCAGACTGACTTGTCTGAGATCGACCCCAATTTGGCTCCAAGGAAGATTTTGAC
AGTCTCTTGCAATCGGCTAAAAAAGAGCATCCGTGTCTTCTGGACCTTACTCCCAACTACCGGGGTGAGAAC
TCGTGGTTCTCCACTCAGGTTGACACTGTGCCCCAACAGGTGAAGGATGCTCTGGAGTTTTGGCTGCAAGCTGGC
GTGGATGGGTTCCAGGTTGCGGACATAGAGAATCTGAAGGATGCATCCTCATTCTTGGCTGAGTGGCAAAATATC
ACCAAGGGCTTCAGTGAAGACAGGCTCTTGATTGCGGGGACTAACTCCTCCGACCTTCAGCAGATCCTGAGCCTA
CTCGAATCCAACAAAGACTTGCTGTTGACTAGCTCATACCTGTCTGATTCTGGTTCTACTGGGGAGCATACAAAA
TCCCTAGTCACACAGTATTTGAATGCCACTGGCAATCGCTGGTGCAGCTGGAGTTTGTCTCAGGCAAGGCTCCTG
ACTTCCTTCTTGCCGGCTCAACTTCTCCGACTCTACCAGCTGATGCTCTTACCCTGCCAGGGACCCCTGTTTTT
AGCTACGGGGATGAGATTGGCCTGGATGCAGCTGCCCTTCTGGACAGCCTATGGAGGCTCCAGTCATGCTGTGG
GATGAGTCCAGCTTCCCTGACATCCAGGGGCTGTAAGTGCCAACATGACTGTGAAGGGCCAGAGTGAAGACCCT
GGCTCCCTCCTTTCTTGTTCGGGCGGCTGAGTGACCAGCGGAGTAAGGAGCGCTCCCTACTGCATGGGGACTTC
CACGCGTTCTCCGCTGGGCTGGACTCTTCTCCTATATCCGCCACTGGGACCAGAATGAGCGTTTTCTGGTAGTG
CTTAACTTTGGGGATGTGGGCTCTCGGCTGGACTGCAGGCCCTCCGACCTGCCTGCCAGCGCCAGCCTGCCAGCC
AAGGCTGACCTCCTGCTCAGCACCCAGCCAGGCGGTGAGGAGGGCTCCCCTCTTGAGCTGGAACGCCTGAAACTG
GAGCCTCACGAAGGGCTGCTGCTCCGCTTCCCTACGCGGCCTGACTTTTCAGCCTGACATGGACCCACTACCCTTC
TCCTTTCTTCCAGGCCCTTGGCTTCTGATTTTTCTTTTTTAAAAACAAACAACTGTTGCAAAAAA
AAAAAAAAAAAA

129/2682
FIGURE 123

MSQDTEVDMKEVELNELEPEKQPMNAASGAAMSLAGAEKNGLVKIKVAEDEAEAAAAAKFTGLSKEELLKVAGSP
GWVRTRWALLLLFWLWLGMLAGAVVIVRAPRCRELPAQKWWHTGALYRIGDLQAFQGHGAGNLAGLKGRLDYL
SSLKVKGVLVGP I HKNQKDDVAQTDLLQIDPNFGSKEDFDSLLQSAKKKSIRVILDLT PNYRGENSWFSTQVDTV
ATKVKDALEFWLQAGVDGFQVRDIENLKDASSFLAEWQNITKGFSEDRLLIAGTNSSDLQQILSLESNKDLLLT
SSYLSDSGSTGEHTKSLVTQYLNATGNRWCSWSLSQARLLTSFLPAQLLRLYQLMLFTLPGTPVFSYGDEIGLDA
AALPGQPM EAPV MLWDESSFPDIPGAVSANMTVKGQSEDPGSLLSLFRRLSDQRSKERSLLHGDFHAFSAGPGLF
SYIRHWDQNERFLVVLNFGDVGLSAGLQASDLPASASLPKADLLLSTQPGREEGSPLELERLKLEPHEGLLLRF
PYAA

130/2682
FIGURE 124

GGCACGAGGCCCGGTTCCGGCGCGGTTGAGGCCTTCGGTGGTGAACGAGTCTCCAGCACCATGTCTGGTTTGTC
TGGCCACCAGCCCGCGCGGCCCTTTCCGTTAGCGTTGCTGCTTTTGTTCCTGCTCGGCCCCAGATTGGTCCT
TGCCATCTCCTTCCATCTGCCATTAACTCTCGCAAGTGCCTCCGTGAGGAGATTACAAGGACCTGCTAGTGAC
TGGCGCGTACGAGATCTCCGACCAGTCTGGGGGCGCTGGCGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGC
TGGCCATATTCTCTACTCCAAAGAGGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTT
TGAAGTGTGTTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGAGT
GGAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAGCTCAAACCATTAGAGGTAGAGCTGCGACGCCTAGA
AGACCTTTCAGAATCTATTGTTAATGATTTTGCCTACATGAAGAAGAGAGAAGAGGAGATGCGTGATACCAACGA
GTCAACAAACACTCGGGTCTTATACTTCAGCATCTTTCAATGTTCTGTCTCATTGGACTAGCTACCTGGCAGGT
CTTCTACCTGCGACGCTTCTTCAAGGCCAAGAAATTGATTGAGTAAATGAATGAGGCATATTCTCCTCCACCTTG
TACCTCAGCCAGCAGAACATCGCTGGGACGTGCCTGGCCTAAGGCATCCTACCAACAGCACCATCAAGGCACGTT
GGAGCTTTCTTGCCAGAAGTATCTCTTTTGGTGTGGGAGGACATGGGGTACCACCTACACCCAACAAGTCAATG
AGGGACTTCTTTTAATTTGGTAGGATTTTGACTGGTTTTGCAACAATAGGTCTATTATTAGAGTCACCTATGAC
AAAAAATAGGGGTTACCTAGATAATGCCAAAGTCAGCATTTGTCCTGGGTTCCCTTGTGTGATCTGTTTGGACTA
TGTTTTCTTTCTTCTCCCACTTGCTCAGCAGCTTGGGCTTCCATTCTAGTTCTTTTACCAAGATTTTGTGTGA
CCATGTTGACTTCATTTGGATTGCCCTCTTTCAATTTCTTGTGAAAACACCCTTAACCTTCTCTTTACCCTTAG
CTGAAATGTTTACATAGCTTCTGGTGATATCTTTTCATGATTTTATATCTCTTAAATGGTGATGGATGTGACAC
CTCATAAAAGTGAGCTTTGAACTGTAGATAACTCTTAAAGAAAATGTCATTTTAGACAATTAAATATTTGTGCT
CAACTGCTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

131/2682
FIGURE 125

MSGLSGPPARRGPFPLALLLLFLLGPRLVLAISFHLPIINSRKCLREEIHKDLLVTGAYEISDQSGGAGGLRSHLK
ITDSAGHILYSKEDATKGKFAFTTEDYDMFEVCFESKGTGRIPDQLVILDMKHGVEAKNYEEIAKVEKLKPLEVE
LRRLEDLSESIVNDFAYMKKREEEMRDTNESTNTRVLYFSIFSMFCLIGLATWQVFYLRFFKAKKLIE

132/2682
FIGURE 126A

AGAGCGAGCAGGGGAGAGCGAGACCAGTTTTAAGGGGAGGACCGGTGCGAGTGAGGCAGCCCCGAGGCTCTGCTC
GCCCACCACCAATCCTCGCCTCCCTTCTGCTCCACCTTCTCTCTGCCCCTCACCTCTCCCCGAAAACCCCTT
ATTTAGCCAAAGGAAGGAGGTGAGGGGAACGCTCTCCCTCCCTTCCAAAAACAAAAACAGAAAAACCCCTTTT
CCAGGCCGGGAAAGCAGGAGGAGAGGGGCCCGGGCTGGCCATGAGCTGCTGTGCCACGAGGTGGACCCGG
TCCGACGGCCGTGCGGGACCGCAACCTGCTCCGAGACGACCGCTCCTGCAGAACCTGCTCACCATCGAGGAGC
GCTACCTTCCGAGTGCTCCTACTTCAAGTGCGTGAGAAGGACATCCAACCCTACATGCGCAGAATGGTGGCCA
CCTGGATGCTGGAGGTCTGTGAGGAACAGAAGTGCGAAGAAGAGGTCTTCCCTCTGGCCATGAATTACCTGGACC
GTTTCTTGGCTGGGGTCCCGACTCCGAAGTCCCATCTGCAACTCCTGGGTGCTGTCTGCATGTTCTTGGCCTCCA
AACTCAAAGAGACCAGCCCGCTGACCGCGGAGAAGCTGTGCATTTACACCGACAACCTCCATCAAGCCTCAGGAGC
TGCTGGAGTGGGAAGTGGTGGTGTGGGGGAAGTTGAAGTGGAACTGGCAGCTGTCACTCCTCATGACTTCATTG
AGCACATCTTGGCAAGCTGCCCCAGCAGCGGGAGAGCTGTCTCTGATCCGCAAGCATGCTCAGACCTTCATTG
CTCTGTGTGCCACCGACTTTAAGTTTGCCATGTACCCACCGTCGATGATCGCAACTGGAAGTGTGGGAGCAGCCA
TCTGTGGGCTCCAGCAGGATGAGGAAGTGAGCTCGCTCACTTGTGATGCCCTGACTGAGCTGCTGGCTAAGATCA
CCAACACAGACGTGGATTGTCTCAAAGCTTGCCAGGAGCAGATTGAGGCGGTGCTCCTCAATAGCCTGCAGCAGT
ACCGTCAGGACCAACGTGACGGATCCAAGTCGGAGGATGAAGTGGACCAAGCCAGCACCCCTACAGACGTGCGGG
ATATCGACCTGTGAGGATGCCAGTTGGGCCGAAAGAGAGAGACGCTCCATAATCTGGTCTCTTCTTTCTTTCTGG
TTGTTTTTGTCTTTGTGTTTTAGGGTGAAACTTAAAAAAAATTCTGCCCCACCTAGATCATATTTAAAGAT
CTTTTAGAAGTAGAGAAAAAGGTCTTACGAAAACGGAATAATAAAAGCATTGTTGGTGCCTATTTGAAGTACAGC
ATAAGGGAATCCCTTGTATATGCGAACAGTTATTGTTTGATTATGTAAAGTAATAGTAAATGCTTACAGGAAA
ACCTGCAGAGTAGTTAGAGAAATATGTATGCCTGCAATATGGGAACAAATTAGAGGAGACTTTTTTTTTTCTATGTT
ATGAGCTAGCACATACACCCCTTGTAGTATAATTTCAAGGAAGTGTGTACGCCATTTATGGCATGATTAGATTG
CAAAGCAATGAAGTCAAGAAGGAATTGAAATAAGGAGGGACATGATGGGGAAGGAGTACAAAAAATCTCTCAAC
ATGATTGAACCATTTGGGATGGAGAAGCACCTTTGCTCTCAGCCACCTGTTACTAAGTCAGGAGTGTAGTTGGAT
CTCTACATTAATGTCTCTTGTCTGTCTACAGTAGCTGTACCTAAAAAAGATGTTTTATTTTGCCAGTTGGACA
CAGGTGATTGGCTCCTGGGTTTCATGTTCTGTGACATCCTGCTTCTTCTTCCAAATGCAGTTTCATTGCAGACACC
ACCATATTGCTATCTAATGGGGAAATGTAGCTATGGGCCATAACCAAACTCACATGAAACGGAGGCAGATGGAG
ACCAAGGGTGGGATCCAGAATGGAGTCTTTTCTGTTATTGTATTTAAAGGGTAATGTGGCCTTGGCATTCTTCTC
TTAGAAAAAACTAATTTTTGGTGTGATTGGCATGTCTGGTTACAGTTTAGCATTGTTATAAACCATTCCATT
CGAAAAGCACTTTGAAAAATTGTTCCCGAGCGATAGATGGGATGGTTTATGCAAGTCATGCTGAATACTCCTCCC
CTCTTCTCTTTTGGCCCCCTCCCTTCTGCCCCAGTCTGGGTTACTCTTCGCTTCTGGTATCTGGCGTTCTTTGG
TACACAGTTCTGGTGTTCCTACCAGGACTCAAGAGACACCCCTTCTGCTGACATTCCCATCACAACTTCTCTCA
GACAAGCCTGTAACTAAATCTGTTACCATTCTGATGGCACAGAAGGATCTTAATCCCATCTCTATACTTCTC
CTTTGGACATGGAAAGAAAAGTTATTGCTGGTGCAAAGATAGATGGCTGAACATCAGGGTGTGGCATTGTTGTTCC
CTTTTCCGTTTTTTTTTTTTTTTATTGTTGTTGTTAATTTTATTGCAAAGTTGTATTACGCGTACTTGAATTTTTT
TTCCTCTCCACTTCTTAGAGGCATTGAGTTAGCAAAGAGGTTGGAGCAACAACCTTTTTTTTTTTTTTTTGCACAA
TTGTAATTGACAGGTAATGAAGCTATTTGTTAAATATTTGCCTTTTTAAGTAAAAAGAAAAATCAGAACAGGG
CTATTTGAAGAATTATTTTATACACAGATTCTGCCTTGTTTCATAGTATGAGGGTTGAAGACGGAACAACTCTA
AGGGTCTCTCAATTTTTTTAATTTTGTGTTTGTTCAGTTTGGTTTTTTTTTTTTTTTGGCTGCTAAGAAGCTAAAG
TCATCCATCCTTATTACGTTGACAGTACCTAGCTGTAATGTTTCACAGAGTGTGCTGCTATTTTATAAACATTT
TTATAATATATTATTTTACTGCTTAAATTCAGTCTGAAGTAGATGGTTGAGATAGAGTTCTTCGTACTGGA
AAAGCCCTTCCGTAGTTTGTCTTCTGTTAGCATATTCATGGTTGTTTTTTTTTTTCTTTTTTGGTTTTTTGG
TTTTTTTTTTTTTCTCTGATCACATTCTTCAAAGACGGAGTATTCTTTACCTCAGGTTTACTGGACAAAATCAAT
AACTACAAAAGGCAATGATTACGCTTTTGTGTTTATAATACCTCACAACCGTACAGTTTCTGCTTGGGAGCCCA
TTCGATGAGGAATACAGAAGCAGTGTGAGCAGGGCTGACTCCCTCTCAGGTGGAAGGAGGGCGGTCTCACTCC
CAGGGACCTTTTTGGTCATGGAGGCCATCGGGCTCCAGTTAGACCTGGTATCCTCATCATGATGGAAAAATA
CATTGAACCAAGGGATCCTCCCTCCCTTCAAGGCAGACGTTCACTACAAACATTTATGCGGTAGGCTCAGATGT
CGTAATTTGCACTTAGGTACCAGGTGTGAGGAACAGACTAAAAAGAATTCCACCAGGCTGTTTGGAGATCCTCA
TCTTGAGCTTTTTCAAAGCGGGGCTTCATCTGCAAAGGGCCCTTTCATCTTGAAGTTTTTCCCTCCGCTTT

133/2682
FIGURE 126B

CCCCCCCCCTGGCATGGACACCTTGTGTTTAGGATCATCTCTGCAGGTTTCCTAGGTCTGAATCTGCGAGTAGAT
GAACCTGCAGCAAGCAGCGTTTATGGTGCTTCCTTCTCCCTCCTCTGTCTCAAACCTGCGCAGGCAAGCACTATGC
AAGCCCAGGCCCTCTGCTGAGCGGTACTAAACGGTTCGGGTTTTCAATCACACTGAATTGGCAGGATAAGAAAAAT
AGGTCAGATAAGTATGGGATGATAGTTGAAGGGAGGTGAAGAGGCTGCTTCTCTACAGAGGTGAAATTCAGATG
AGTCAGTCTCTTGGGAAGTGTGTTAGAAGGGTTCAGGACTTTGTGAGTTAGCATGACCCTAAAAATCTAGGGGA
TTTCTGGTGGGACAATGGGTGGTGAATTTTGAAGTTTGGAGAGGGAAGTGGAGCAGCCAGCAAGTAAGCTAGCC
AGAGTTTTCTCAAGAGCCAGCTTTGCTCAGCACACTCTCCTGGGCCCCAAGGAGTCCCACGGAATGGGGAAAGTG
GGAACCTTGGAGTTCTTGGGAATCTTGGAGCCTAAAGAGAAACCGAGGTGCAAAATTCATTTTATGGTACTGACC
CTTGAGCTTAAACAGAAAGCAGCAAAATGAAAGAACCGGACAAATAAGGAAGGGCACAAGCCTACCCGACTCTATTT
ACAGTCTGTAACCTTTCCACTCTTCTGTAGTCCCGAGGCCCCCTGGGTCTTCTAGCTTTTCTCTTTCCCATCTCTT
GGGGCCTTGTGTGATGATGGGTGTGGGGCTGCCGATGGGAAGTGGGGGTGTAGGCTTTTCTGCCTGTCTCTCT
GCTTAAACACAAGAAGGAATCCTGGATTTTGCCCTCTCCTTAGCTCTTAGTCTCTTTGGTAGGAGTTTGTGTCCA
GAGGAGCTCTCCCCCTTGGATTTGAACCTTGCTCTTTTGTGTGTGTGTCTTTCTCTCTTTTCTTACCTCCC
ACTAAGGGGTTCCAAATTATCCTGGTCTTTTCTACCTTGTGTGTGTCTATCTCGTCTTTACTTCCATCTGT
TGTTTTTTTCTCCATCAGTGGGGGCCGAGTTGTCCCCCAGCCTGCCAAATTTGATCCTTCCCTCTTTTGGCC
AAATCCTAGGGGGGAAGAAATCCTAGTATGCCAAAAATATAGCTAAGCATAATTAAACTCCATGCGGGTCCATAA
CAGCCAAGAAAGCCTGCAGGAGAAAGCCAAGGGCAGTTCCCTCCGAGAACACCCCATGCGTGCTGAGAGGCGAGC
TCCTTGAAGAAGGGGCTGTCTTCCAGGAGGCTTATTTTGAACCTGCCTCAGGACCCCACTGGAGACACAGCAT
GCCTTACTACTGGGTCTATCTTGGTCTATGTGCTGTACTGGAGGCTCTGTCTGCCTCTTATCAGCCAGGTCA
GGGGCACATAGGCTTAAAGTGACAAAGCCAGAGGAGAAGACAACCTGACAGCATCAGCTGCATCCCATTTGCTA
GCAGGATTGGCAACTCTTTCAGACGGAGCTGCGCTTCCCTGCAGTCTAGCACCTCTAGGGCCTCTCCAGACTGTGC
CCTGGGAGCTCTGGGACTGAAAGGTTAAGAACATAAGGCAGGATCAGATGACTCTCTCCAAGAGGGCAGGGGAAT
TTTCTCTCCATGGGCCACAGGGGACAGGGCTGGGAGAAGAAATAGACTTGCACCTTATGTCTATGTAATAATTGA
TTTTCTAGTTCAAGAAGATAATATTGGTAGTGTGGGAATTGGAGGTAGGAAGGGGAGGAAGTCTGAGTAAGCCAG
TTGGCTTCTAAGCCAAAAGGATTCCCTCTTTGTTTATCTCTGAGACAGTCCAACCTTGAGAATAGCTTTAAAAGGG
AAATTAATGCTGAGATGATAAAGTCCCCCTTAAGCCAACAAACCTCTGTAGCTATAGAATGAGTGCAGGTTTCTA
TTGGTGTGGACTCAGAGCAATTTACAAGAGCTGTTTCATGCAGCCATCCATTTGTGCAAAATAGGGTAAGAAGATT
CAAGAGGATATTTATTACTTCCCTCATACCACATGGCTTTTGATGATTCTGGATTCTAAACAACCCAGAATGGTCA
TTTCAGGCACAACGATACTACATTTCGTGTGTGCTGCTTTTAACTTGGCTGGGCTATCAGACCCTATTCTCGGC
TCAGGTTTTGAGAAGCCATCAGCAAAATGTGTACGTGCATGCTGTAGCTGCAGCCTGCATCCCTTCGCCCTGCAGCC
TACTTTGGGGAAATAAAGTGCCTTACTGACTGTAGCCATTACAGTATCCAATGTCTTTTGACAGGTGCCTGTCTCT
TGAAAAACAAAGTTTCTATTTTTATTTTTAATTGGTTTAGTCTTAACTGCTGGCCAACTCTTACATCCCCAGCA
AATCATCGGGCCATTGGATTTTTTCCATTATGTTTCATCACCCTTATATCATGTACCTCAGATCTCTCTCTCTC
CTCTCTCTCAGTTATATAGTTTCTTGTCTTGGACTTTTTTTTTCTTTTCTTTTTTTTTTTTTTTTGGCTTAAAA
CAAGTGTGATGCCATATCAAGTCCATGTTATTCTCTCAGAGTGTACTCTATAAGAGGTGTGGGTGTCTGTTGGT
CAGGATGTTAGAAAGTGTGATAAGTAGCATGATCAGTGTATGCGAAAAGGTTTTTAGGAAGTATGGCAAAAATG
TTGTATTGGCTATGATGGTGACATGATATAGTCAGCTGCCTTTTAAAGAGGTCTTATCTGTTTCAAGTGTAAAGTAT
TTAAAAAATAATAACCTGTTTTCTGACTAGTTTAAAGATGGATTGAAAATGGTTTTGAATGCAATTAGGTTAT
GCTATTTGGACAATAAACTCACCTTGACCT

134/2682
FIGURE 127

MELLCHEVDPVRRAVDRNLLRDDRVLQNLITIEERYLPQCSYFKCVQKDIQPYMRRMVATWMLEVCEEQKCEEE
VFPLAMNYLDRFLAGVPTPKSHLQLLGAVCMFLASKLKETSPLTAEKLCIYTDNSIKPQELLEWELVVLGKWKWN
LAAVTPHDFIEHILRKLPQOREKLSLIRKHAQTFIALCATDFKFAMYPPSMIATGSGAAICGLQQDEEVSSLTC
DALTELLAKITNTDVCCLKACQEQIEAVLLNSLQQYRQDQRDGSKEDELDQASTPTDVRDIDL

135/2682
FIGURE 128A

TGTGGCTGTGACCTGGCACAAGGGGGCTTCTTCATAAAGAACGGAGAGTATCTCTGCACCCTGGACTACCAGCGG
ATGTACGGGACACGCTGCCATGGCTGTGGGGAGTTCTGTGGAGGGCGAAGTGGTGACTGCTCTGGGCAAGACCTAC
CATCCCAATTGCTTTGCTTGTACTATCTGCAAGCGCCCGTTTCCACCCGGAGACCGAGTCACATTCAATGGGAGA
GACTGCCTTTGTCAACTCTGTGCACAGCCGATGTCTGCAGTCCGAAAGAAACCACCTTCTCCAGCAATTGTGCC
GGCTGCGGAAGAGATATCAAGAACGGGCAGGCGCTGTGGCGCTGGATAAGCAGTGGCACTTGGGGTGCTTTAAA
TGCAAGTCTTGCAGGAAGGTCTTACCAGGGGAGTACATCAGCAAGGATGGTGCTCCGTACTGTGAAAAGGACTAC
CAGGGACTCTTTGGGGTGAAATGTGAGGCGTGTACCAGTTTATCACAGGGAAAGTCTTGAGGCAGGTGACAAA
CATTACCACCCAGCTGTGCACGATGCAGCAGATGCAACCAGATGTTACAGAAGGAGAGAAATGTATCTCAA
GGCTCCACCGTTTGGCATCCCGACTGTAAGCAATCTACGAAGACCGAGGAAAAGCTGCGGCCTACCAGGACATCC
TCGGAAAGTATTTATTCTAGGCCAGGCTCCAGTATTCTGGCTCACCAGGTCATACTATCTATGCAAAAGTAGAC
AATGAGATCCTGGATTACAAGGATTTAGCAGCCATTCCGAAGGTCAAGGCAATTTATGACATTGAACGTCCAGAT
CTTATTACCTATGAGCCTTTCTACACTTCGGGCTATGATGACAAACAGGAGACAGAGCCTTGGAGAGTCTCCG
AGGACTTTGTCTCTACTCCATCAGCAGAAGGGTACCAGGATGTTCCGGATCGGATGATCCATCGGTCCACGAGC
CAGGGCTCCATCAACTCCCCTGTGTACAGCCGCCACAGTACACTCCAACCACGTCCCGCTCTCCCCAGCATTTC
CACAGACCTGGCAATGAGCCGTCCAGCGGCCGGAACCTCCCTCTCCCTTACCAGGCCAGACAGCCGCCCTCTAACT
CCAACCTACGCTCAGGCCCCCTAAACATTTCCATGTTCCAGATCAAGGAATCAACATTTACCGAAGGCCACCCATC
TACAAACAGCATGCTGCCTTGGCAGCCCAGAGCAAGTCTCTCAGAAGATATCATCAAGTTTTCCAAGTTCCAGCA
GCCCAGGCACCCAGACCCAGCGAGACACCAGAGATTGAGACGGACCACTGGCCTGGTCCCCCTCATTGTCTGTC
ATAGGACCTGACATGAAACGCAGATCTAGTGGCAGAGAGGAAGATGATGAGGAACCTTCTGAGACGTGCGCAGCTT
CAAGAAGAGCAATTAATGAAGCTTAACCTCAGGCCCTGGGACAGTTGATCTTGAAAGAAGAGATGGAGAAAGAGAGC
CGGAAAGGTCAATCTCTGTTAGCCAGTCTGATTACGATTCTCCATCAACTCAGCTTCACATATTCCATCATCTAAA
ACTGCATCTCTCCCTGGCTATGGAAGAAATGGGCTTACCAGGCTGTTTCTACCGACTTCGCTCAGTATAACAGC
TATGGGGATGTCTCAGCGGGGAGTGCAGATTACCAGACACTCCAGATGGCCACATGCCTGCAATGAGAATGGAC
CGAGGAGTGTCTATGCCCAACATGTTGGAACCAAGATATTTCCATATGAAATGCTCATGGTGACCAACAGAGGG
CGAAACAAATCCTCAGAGAGGTGGACAGAACCAGGCTGGAGCGCCACTTAGCCCCGAAAGTGTTCGGGAAATC
TTTGGAATGTCCATACAGGAGTTTGACAGGTTACCTCTTTGGAGACGCAACGACATGAAGAAAAAGCAAACTC
TTCTTAAGTCCCACTCGTGAATGGCAATTAGAGAAAGGACTGACAGTGGCGGTGCCCCATAGGATGTCATATTGAG
GCCCAACTTGATTGGAGAATTTGCAAACTACCGTGCCTCAGCAACACCAAAAAGAGAAAGTCTGGTTAAACAC
CATGAGTCAAATGTGCGGCCAGCCAACAGTAACACTTGCCAAGAGCATGGCGTAGAAATTTCTATGTTCCGAAA
CACAGAGTAGTGTCCACATGTGACCTTTTACATTACCTTATGTATACAACAGGAGCTGCGTTGTTTTCTTCTTT
TTCTTTTCTTTATCTGTTGTCCAACAACAGTGTGACTGTCCGATAAGAGCTGGCAAGTGGCCTTAGGATGCC
GCATGGGAAAAATCGGTTATCATAATTTCAAAGTATAAATATATTTATTATGTAGCGCTGCGGCTAAGAAGGAAG
AGTGAGGGGTCTGTCCATGGGGTGGCAGTGATTTACACCCGCCCTTCTTGAATGGCTTCGTGTTACTCAGCCGT
GCCCTGGCAGGAATGGAACCTCATCAGGGAACAGGGCAGCTCTGTTTGAATGGGGTGAAAAACAGCAAAATTAAT
TCTTAGCAAGCTCCTTGTTCTCTACTGTTACCGGGACCTGGCTGGCAAATGACTTAGCTATTAGTATATTTAAA
AACTGTTCAAAGCAAAAGAGAAGGAACAGGAATGAAAGGAAACCTTCCCTTAACCTCTTCTGCTTCCCATAGCA
GGTCTGGTTCTGCTCCCCGCCTAGGACAGGAGCTGTCTGGAGCTCCACCTTTGCAAAGAAAGGAAAAACAAAA
TTGCCCCCAGATTGGCCCAGTGGCATGCCATTAGGTGATTTTGGCTAGGGGCCATATCATTATGGCCAAAAAAA
ACCAAAAAGCAAAAAACAAAAACAAGTCCCATGTCCTACTGACTCTAGTTCTTCCAGTCGTTATCCTCTGCTGTC
TCTCTGGCATCCTATGAATCAGATCAAGCCCATGCTGTTGTTGGTTTTTAAGGTTTTCTTCAATAATAGGCTAAG
GAAAGACATGTTTTCTCTTTTAAATCTCTGCAACTCAAAGTAGACTCCTTCGAACGTATTTAATTTGGCCTTT
TCAGCTTTCTTCTTGGCCAGCTCTGTGCAATTCATGGGTGTGTGTGCACATGTTGGTTTCACTCACCCAGAGTAA
TTTTGTGAGCATGCATGTGCTTTTTAATTTCTGCTTGAATGTTTGTCTGCTGTGTTGCAGCTTCTAAAGACATT
GTCACCGAGTGTGTGACTCAAAGATCAAGAGTGAAGGCTAAACTGCGACCCCAACATCACTTCTTTCATGGA
GGTGTGGCGCTGATGTAGCTCATGGAAGGATCAGACTGGGAACACAGAGGAAGGATGAGGTGGGATGTGGAGG
TCAGAGCATCTCACGAGAGTCCCTCAGGCTCTGCAACACTAGATTGGAATATGAGCCTAGGGTTTCCCCAACAG
TGCGTGCATATGAAACCACATCATGATTCCCGACGTGAGTTAGATGAGGGAGAGTTTGTGTAACCTCACACCCAG
GAGGGTAAGCCACTTTATTATCATGCTTTGGGGCTGTGCTTAAGAATTTAAGCTCTGTTTTAAAGCCGAAGAAGA

136/2682
FIGURE 128B

AACCAATTGGAATTACCTTTCATATGCCACTAAGAACAAAGAGCTCTGAAGTTCTTCTCTGCTGGCACCAAATATTAG
 GATTACAAGCTGTCTCTCTGACACCAGTGGTAAAAAAGCAAGTAGAATAGTTTCTGAGTCTGTGTTGCAGCCTCT
 GACACGTGGCTCACTGCTGTCATTTGGGGGGTGGGAATGAACAGTCACTGTTCTATAGCATCCTCCTGTGCTCTTA
 CCTAAGGAATCTAAATTGCTCTAGCCTTCCATTGCTATGCAGTGAATGAGGACTACTCTCGTGTGTGTGTGTGTG
 TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGGATCTACTAACATGTTTAGCAAATGGCTCTGACAGGGTGG
 CCATGAGCAGATGAGACCAGCTCTTGCTTGGTTGGAAGCCACACTGCAGTTTGAGTTTAGCCTTTGGTGTCTCA
 GTGGCCTCTTGCTTATTCCATGCTTTTTCTATCCCATCCTCTCTCTGTGCCCTCTGCAATGGCAGCCTTGGCAC
 AATGCCTGGGTGTCTCATCCTTGCTTTACTCTGGAAAGTGTTGGGGATGGAGAGGATGGTGCATTTCCAGTGCTT
 CCTTACCTGTCAATAACAATGGTGGCCACCTGGGTCCAGCACTTGGCTGGTGGAGAGATTTTTTTCATTATGGA
 GCTAATAAAGGGTCCCTACGTTTTACATTGATTAATGAATTATCACCCAGACATGTGCAGATGAAATGTCAATAT
 AAGAAAAATCAAGGTATTTGGGAAACATGGGCATAATCAGGTAGTTTGTCTAAAATTCCTCTTCTTGGTCTACA
 TAAAGAAGACATGGGTCTGTCTAGAAATGGGGACATTAGACTGAAAACCTGGGACAACCCCTTCTTATTTTATA
 GAGACTAGGAGTTAAGGGGCTGCCTAAGATTGCAGTGATAAAGAACTGAACCTAAATCAGCTCCCCTAATGA
 AACCTGCTTTTCTGTATCTTTTAACTCAGTTCTGCATCCAACCTGAGAAGAAAAAAGCTTCTTTCCATATC
 AAGTACCATATGAGTTCAATTTAACTGCACCTTGAGAAATGCATTGCCAGAAAGCACCAGTAGCCTCCTATCTG
 CAAGCAGAGTAGTGCTCTGCTCTGGGAGGGGTGATTGGAACCATAAATGCAGAGTGGGCCCCCTACTCCATTTT
 CCAGCAAAAGGCTCCAGCTGGAGGGATGGGTTGTGGGGCAACCTGGTTCCTGCTAACTGCCAGATTGAATGTGTG
 GGCTAGAATGCCTGCGCATTTAGTTAACTGGGCTCAGCATGCTTGTCTCAAAATGTCATCCTGGTACAGCA
 CACAAGATGGCTATTGGTCTGCTTTTACCCTACCCTGTACTATACATGAAAATTCAGTTATTAACACACTCAAA
 CTGGTGGAGCTTGTTTACCCTAGGAAGGGGATTGTATATATGGCAGGCTTCCCTGGTGCCGATGTAAAGGGCTAC
 ATTTGGGAACATTTGACTTCCTTGGGACTCTTAAGTGCATACTGATGGCATGAAGTAAAGGGGCTCAATGATG
 ATAGGAAAATCAGTTCTTTTAAATTTCTTCAAGAAAATCCAGGCTATCACATAGTCTTTCTGTGTGACTTATTA
 GGAGATAGGAAGAGCATTGGGAACTTGCACAGCTAGCTATGCATCTACATTTTGGTTTGGGGTAGTTATGAAA
 GTTCTTAAATATGACGTGTTCAATAACTTCACATAAACTTCCTGTTCTCCAAAACCTCAAAGAGATAGAGTTAAT
 GAGTTGTTGTTTTTTTTTAAATGGGGGTAGTTTTCTATCTGTCTATGGGCTCTAGCATCTACTCCGCTACCCAATT
 CTGTCTATCTCAAAGCTGAGTTTCTCTTCTGAGGCAGAGGCTGGAGCAGTTCTTTTTTCAAGTTCTATCCTCTCCA
 TCCCAATCCAGTATATCAATCAACTCTAACTCGGAGACGCTCTAGCTGGCAATGTTTCTAAAACCTTCACTGGATT
 TCTTTAGACATTGAAGCAAAACATTTTTTCTAAGAATTGCTTCTCAGATGATGATATCAATGTATATGCTTTTG
 CAAGTTTGAAAAGTTCAAATTAACCACTTTTACTAGGTAAGTCTTTCTAAAAACCATTTAAAGCTAACTGGGTCT
 TTAGCATCCTCCTGTGTATGGAAGAGACAGGTGACCGCTCCAGGTTGGGTGCTCACAGAACCTTTTCTGACTC
 TCATGGAAGATGGTGGGAAGGAAAATAGACTGTCTCATCAACCTCCTGTGTCTCTGAAGCAATCTCAGTTTTTA
 TTAACCACCTCTTCTGTGTTTCTGGTAGCTATTTAACCTGTATTTAATCTGTACTTCTATGCCAGCCTCAATT
 TATTTGATTTTTTAAATTAATCTCTTCTAACCATGAAGTGTGTTGTGATGATGCCCCAAAGCTTGCTCTTTTGTG
 CTCCCTTTTGAATAACTTTCTATCCAGAAAAAGAGATTATTTGGGACTTGAGATTGTCAGTGATACCAACTTATA
 GCAATGATGTACTTTAAGGGAACCTACCAACTATGTTGTGATAGAGAAAGAGAAACCTTCACTTTGGCATTTTT
 TTTAATCACTGTTTATTTTTCTGTTTGGCGCCAGGAAGCAGTGGGAGGTGGTGGCAGATATGCTTTGCATATGG
 ATTGTTATGTTTTTATTTGGGCAAGTTTTAATCATGGAAAACTCAAAAAGAAAGGGGGAAATGGTCAAGTTTAAGCC
 AAAAGAAACTTTCTAAACAATGTATAGGTACACAGCAAAATTAACAAATCAACAATTTCTGAAGCTTAGTGTA
 ATTGAGTGGTGGTTGTTATTCATAAATAATTTCCCAAAAGTGTTTCTCTTAAGAGTGCAGTTCCCATGAGTCAC
 TTCCTGAACCCATTGACCAAGGTTGGACAGAGACAATCCTGTAGACCTTGACATTAGAAAGATGTGAGCTGCTT
 ACTGATCATATATGCATACGTTTCTTTTACAGCAGAGGAAACCATTGTCCACAAAACCTGATGTTCTTTTGGGGTTT
 TATGTACAGACTTGTCCAATCATGTGTGTGTTTCTGCGAGTTGCTGATGACTCCGCATTGAAGCTCTCTGAGTT
 CTTTGATTTTAAGTTGGGTTTATGGAATTTTTTCAAATGTTGGAAGGCGTGTGGTTCTTCTGCCCTCCCTCCCC
 TTTTGGAAATATGAAAGCAAAATGTTTAGAAGAATTCCTTTTGAAGCTGTGTGCTGTCTCCCTGTGAAACTGAGC
 AGGTGTGTGTTGGCGCGCTAAGTGCCACATGCTTGTGTGTAGAGGAGGAGGTGGCCCTGCCGCTCCGCGCTGCT
 GTGCCTGTGATCCCTACCTGCTCCCCGCTCCTGTTGCCAGCAGCACTCACTGCACTCCTTTGTATATACTCTGC
 ATCACTGTCTACTCACAACCTTCGTGAATAAAGTTGTGTGCTTTATTCGTC

137/2682
FIGURE 129

MYGTRCHGCGEFVEGEVVITALGKTYHPNCFACITICKRPFPPGDRVTFNGRDCLCQLCAQPMSSSPKETTFSNCA
GCGRDIKNGQALLALDKQWHLGCFKCKSCGKVLTEYISKDGAPYCEKDYQGLFGVKCEACHQFITGKVLEAGDK
HYHPSCARCSRCNQMFEAGEEMYLGSTVWHPDCKQSTKTEEKLRPTRTSSESIYSRPGSSIPGSPGHTIYAKVD
NEILDYKDLAAIPKVKAIYDIERPDLITYEPFYTSGYDDKQERQSLGESPRTLSPTPSAEGYQDVRDRMIHRSTS
QGSINSPVYSRHSYTPTTSRSPQHFRPGNEPSSGRNSPLPYRPDSLPLTPTYAQAPKHFHVPDQGGINIYRKPP
YKQHRALAAQSKSSEDI IKFSKFPAAPADPSETPKIETDHWPGPPSFAVVGPDMMKRSSGREEDDEELLRRRQL
QEEQLMKLNSGLGQLILKEEMEKESRERSLLASRYDSPINSASHIPSSKTASLPGYGRNGLHRPVSTDFAQYNS
YGDVSGGVRDYQTLPDGHMPAMRMDRGVSMNMLEPKIFPYEMLMVTNRGRNKILREVDRTRLERHLAPEVFREI
FGMSIQEFDRLPLWRRNDMKKKAKLF

138/2682
FIGURE 130A

CACGAGGCAGCACTCTCTTCGTCGCTTCGGCCAGTGTGTGGGCTGGGCCCTGACAAGCCACCTGAGGAGAGGCT
CGGAGCCGGGCCCCGACCCCGGCGATTGCCGCCCGCTTCTCTCTAGTCTCACGAGGGGTTTCCCGCCTCGCACCC
CCACCTCTGGACTTGCCCTTTCCTTCTCTTCTCCGCGTGTGGAGGAGCCAGCGCTTAGGCCGGAGCGAGCCTGGG
GGCCGCCCGCGTGAAGACATCGCGGGGACCATTACCATGAGGGCGCCGGCGCGCAACGACAAGAAAAAG
ATAAGTTCTGAACGTCGAAAAGAAAAGTCTCGAGATGCAGCCAGATCTCGGCGAAGTAAAGAATCTGAAGTTTTT
TATGAGCTTGCTCATCAGTTGCCACTTCCACATAATGTGAGTTCGCATCTTGATAAGGCCTCTGTGATGAGGCTT
ACCATCAGCTATTGCGTGTGAGGAACTTCTGGATGCTGGTGATTGGATATTGAAGATGACATGAAAGCACAG
ATGAATTGCTTTTATTTGAAAGCCTTGGATGGTTTGTATGGTTCTCACAGATGATGGTGACATGATTTACATT
TCTGATAATGTGAACAAATACATGGGATTAACCTAGTTTGAACCTAAGTGGACACAGTGTGTTTACTCAT
CCATGTGACCATGAGGAAATGAGAGAAATGCTTACACACAGAAATGGCCTTGTGAAAAGGGTAAAGAACAAAAC
ACACAGCGAAGCTTTTTTCTCAGAATGAAGTGTACCCTAATAGCCGAGGAAGAACTATGAACATAAAGCTGCA
ACATGGAAGGTATTGCACTGCACAGGCCACATTACGTATATGATACCAACAGTAACCAACCTCAGTGTGGGTAT
AAGAAACCACCTATGACCTGCTTGGTGCTGATTTGTGAACCCATTCTCACCCTCAAAATATTGAAATTCCTTTA
GATAGCAAGACTTTCCTCAGTCGACACAGCCTGGATATGAAATTTCTTATTGTGATGAAAGAATTACCGAATTG
ATGGGATGTAGCCAGAAGAACTTTTAGGCCGCTCAATTTATGAATATTATCATGCTTTGGACTCTGATCATCTG
ACCAAAACTCATCATGATATGTTTACTAAAGGACAAGTACCACAGGACAGTACAGGATGCTTGCCAAAAGAGGT
GGATATGTCTGGGTTGAAACTCAAGCAACTGTCTATATAACACCAAGAATTCTCAACCACAGTGCATTGTATGT
GTGAATTACGTTGTGAGTGGTATTATTTCAGCAGCTGATTTGATTTTCTCCCTTCAACAAACAGAATGTGCTTAAA
CCGCTTGAATCTTCAGATATGAAATGACTCAGCTATTACCAAAAGTTGAATCAGAAGATACAAGTAGCCTCTTT
GACAAACTTAAAGGAACCTGATGCTTTAACTTTGCTGGCCCCAGCCGCTGGAGACACAATCATATCTTTAGAT
TTTGGCAGCAACGACACAGAACTGATGACCAGCAACTTGAGGAAGTACCATTATATAATGATGTAATGCTCCCC
TCACCCAACGAAAAATTACAGAATATAAAATTTGGCAATGTCTCCATTACCCACCGCTGAAACGCCAAAGCCACTT
CGAAGTAGTGCTGACCCTGCACTCAATCAAGAAGTTGCATTAAAATTAGAACCAATCCAGAGTCACTGGAACCTT
TCTTTTACCATGCCCCAGATTACAGATCAGACACCTAGTCCTTCCGATGGAAGCACTAGACAAAGTTACCTGAG
CCTAATAGTCCCAGTGAATATTGTTTTATGTGGATAGTGATATGGTCAATGAATTCAGTTGGAATTGGTAGAA
AACTTTTTGCTGAAGACACAGAAGCAAGAACCCTTTTTCTACTCAGGACACAGATTAGACTTGGAGATGTTA
GCTCCCTATATCCCAATGGATGATGACTTCCAGTTACGTTCTTTCGATCAGTTGTCACCATTAGAAAGCAGTTCC
GCAAGCCCTGAAAGCGCAAGTCCTCAAAGCACAGTTACAGTATTCCAGCAGACTCAAATACAAGAACCTACTGCT
AATGCCACCCTACCCTGCCACCCTGATGAATTAAGAACAGTGACAAAAGACCGTATGGAAGACATTAAATA
TTGATTGCATCTCCATCTCTACCCACATACATAAAGAACTACTAGTGCCACATCATCACCATATAGAGATACT
CAAAGTCGGACAGCCTCACCAAACAGAGCAGGAAAAGGAGTCATAGAACAGACAGAAAAATCTCATCCAAGAGC
CCTAACGTGTTATCTGTGCTTTGAGTCAAAGAACTACAGTTCCTGAGGAAGAACTAAATCCAAAGATACTAGCT
TTGCAGAATGCTCAGAGAAAGCGAAAAATGGAACATGATGGTTCTTCTTTTCAAGCAGTAGGAATTGGAACATTA
TTACAGCAGCCAGACGATCATGCAGCTACTACATCACTTTCTTGGAACGTGTAAAGGATGCAATCTAGTGAA
CAGAATGGAATGGAGCAAAAGACAATTATTTAATACCCCTGATTTAGCATGTAGACTGCTGGGGCAATCAATG
GATGAAAGTGGATTACCACAGCTGACCAGTTATGATTGTGAAGTTAATGCTCCTATACAAGGCAGCAGAAACCTA
CTGCAGGGTGAAGAATTACTCAGAGCTTTGGATCAAGTTAACTGAGCTTTTTCTTAATTTTATTCTTTTTTGG
ACACTGGTGGCTCACTACCTAAAGCAGTCTATTTATTTTCTACATCTAATTTTAGAAGCCTGGCTACAATACT
GCACAACTTGGTTAGTTCAATTTTTGATCCCTTTCTACTTAATTTACATTAATGCTCTTTTTTAGTATGTTCT
TTAATGCTGGATCACAGACAGCTCATTTTCTCAGTTTTTGGTATTTAAACCATTGCATTGCAGTAGCATCATTT
TAAAAATGCACCTTTTTATTTATTTATTTTGGCTAGGGAGTTATCCCTTTTTCGAATTATTTTTAAGAAGAT
GCCAATATAATTTTTGTAAGAAGGCAGTAACCTTTTCATCATGATCATAGGCAGTTGAAAAATTTTTACACCTTT
TTTTACATTTTACATAAATAATAATGCTTTGCCAGCAGTACGTGGTAGCCACAATTGCACAATATATTTCTTA
AAAAATACCAGCAGTTACTCATGGAATATATTCTGCGTTTATAAACTAGTTTTTAAGAAGAAATTTTTTTGGC
CTATGAAATTGTTAAACCTGGAACATGACATTGTTAATCATATAATAATGATTCTTAATGCTGTATGGTTTTATT
ATTTAAATGGGTAAAGCCATTTACATAATATAGAAAGATATGCATATATCTAGAAGGTATGTGGCATTTATTTGG
ATAAAATCTCAATTCAGAGAAATCATCTGATGTTTCTATAGTCACTTTGCCAGCTCAAAGAAAACAATACCCCT
ATGTAGTTGTGGAAGTTATGCTAATATTGTGTAAGTATTAACCTAAATGTTCTGCCTACCCTGTTGGTAT

139/2682
FIGURE 130B

AAAGATATTTTGAGCAGACTGTAAACAAGAAAAAAAAAATCATGCATTCTTAGCAAATTGCCTAGTATGTTAAT
TTGCTCAAATACAATGTTTGATTTTATGCACTTTGTCGCTATTAACATCCTTTTTTTCATGTAGATTTCAATAA
TTGAGTAATTTTAGAAGCATTATTTTAGGAATATATAGTTGTCACAGTAAATATCTTGTTTTTCTATGTACATT
GTACAAATTTTTCATTCCTTTTGCTCTTTGTGGTTGGATCTAACACTAACTGTATTGTTTTGTACATCAAATAA
ACATCTTCTGTGGAAAAAAAAAAAAAAAAAAAAA

140/2682
FIGURE 131

MEGAGGANDKKKISSERRKEKSRDAARSRRSKESEVFYELAHQLPLPHNVSSHLDKASVMRLTISYLRVRKLLDA
GDLDIEDDMKAQMNC FYLKALDGFVMVLTDDGDMIIYISDNVNKYMGLTQFELTGHSVFDFTHPCDHEEMREMLTH
RNLGVKKGKEQNTQRSFFLRMKCTLTSGRTMNIKSATWKVLHCTGHIHVYDTNSNQPCGYKKFPMTCLVLICE
PIPHPSNIEIPLDSKTFLSRHS LDMKFSYCDERITELMGYEPEELLGRSIY EYHALDSDHLTKTHHDMFTKGQV
TTGQYRMLAKRGGYVWVETQATVIYNTKNSQPCIVCVNYVVS GIIQHDLIFSLQQTECVLKPVESSDMKMTQLF
TKVESED TSSLFDKLKKEPDALTLLAPAAGDTIISLDFGSNDTETDDQQL EEVPLYNDVMLPSPNEKLQINLAM
SPLPTAETPKPLRSSADPALNQEVALKLEPNPESLELSFTMPQIQDQTPSPSDGSTRQSSPEPNSPSEYCFYVDS
DMVNEFKLELVEKLF AEDTEAKNPFSTQD TDLLEMLAPYIPMDDDFQLRSFDQLSPLESSSASPESASPQSTVT
VFQQTQIQEPTANATTTTATTD ELKTVTKDRMEDIKILIASPSPTHIHKETTSATSSPYRDTQSRTASPNRAGK
VIEQTEKSHPRSPNVL SVALSQRITVPEEELNPKILALQNAQRKRKMEHDGSLFQAVGIGTLLQQPDDHAATTSL
SWKRVKGCKSSEQNGMEQKTIILIPSDLACRLLGQSMDESGLPQLTSYDCEVNAPIQGSRNLLQGEELLRALDQV
N

141/2682
FIGURE 132

GCTTAGTGTAAACCAGCGGCGTATATTTTTTAGGCGCCTTTTCGAAAACCTAGTAGTAAATATTCATTGTGTTAAA
TCTTATTTTATTTTTAAGCTCAAACCTGCTTAAGAATACCTTAATTCCTTAAAGTGAAATAATTTTTTGCAAAGGG
GTTTCCTCGATTGAGGCTTTTTTTTCTTCCACCGTCATTTCTAACTCTTAAAACCAACTCAGTTCCATCATGG
TGATGTTCAAGAAGATCAAGTCTTTTGAGGTGGTCTTTAACGACCCTGAAAAGGTGTACGGCAGTGGCGAGAGGG
TGGCTGGCCGGGTGATAGTGGAGGTGTGTGAAGTACTCGTGTCAAAGCCGTTAGGATCTCGGCTTGGCGAGTGG
CTAAAGTGCTTTGGATGCAGGGATCCCAGCAGTGCAAACAGACTTCGGAGTACCTGCGCTATGAAGACACGCTTC
TTCTGGAAGACCAGCCAACAGGTGAGAATGAGATGGTGATCATGAGACCTGGAAACAAATATGAGTACAAGTTTCG
GCTTTGAGCTTCTCAGGGGCTCTGGGAACATCCTTCAAAGGAAATATGGGTGTGTAGACTACTGGGTGAAGG
CTTTTCTTGACCGCCCGAGCCCAACTCAAGAGACAAAGAAAACTTTGAAGTAGTGGATCTGGTGGATGTCA
ATACCCCTGATTTAATGGCACCTGTGTCTGTCTAAAGAAAAAGAAAGTTTCTGCAATGTTTATTCTGATGGGC
GGGTGTCTGTCTGTCTGAATTGACAGAAAAGGATTCTGTGAAGGTGATGAGATTTCCATCCATGCTGACTTTG
AGAATACATGTTCCCGAATTGTGGTCCCCAAAGTGCCATTGTGGCCCGCCACACTTACCTTGCCAATGGCCAGA
CCAAGGTGCTGACTCAGAAGTTGTCATCAGTCAGAGGCAATCATATTATCTCAGGGACATGCGCATCATGGCGTG
GCAAGAGCCTTCGGGTTTCAAGATCAGGCGCTTCTATCCTGGGCTGCAACATCCTTCGAGTTGAATATTCCTTAC
TGATCTATGTTGCGGTTCTGGATCCAAGAAGGTCTATCCTTGACCTGCCCCCTGGTAAATGGCAGCAGATCAGGTC
TAAGCAGCAGAACATCCAGCATGGCCAGCCGAACAGCTCTGAGATGAGTTGGGTAGATCTGAACATCCCTGATA
CCCCAGAAGCTCCTCCCTGCTATATGGATGTCTTCTGAAGATCACCGATTGGAGAGCCCAACAACCTCCTCTGC
TAGATGACATGGATGGCTCTCAAGACAGCCCTATCTTATGTATGCCCTGAGTTCAAGTTTCATGCCACCACCGA
CTTATACTGAGGTGGATCCCTGCATCCTCAACAACATGTGCACTGAGCATGTGGAAGAAAAGAAGCAGCTTTAC
CTACTTGTCTTTTTGTCTCTCTTCTGACACTCACTTTTTTTCAGAGACTCAACAGTCTCGTCAATGGAGTGTG
GGTCCACCTTAGCTCTGACTTCTTAATGTAGGAGGTGGTCAGCAGGCAATCTCCTGGGCCTTAAAGGATGCGGA
CTCATCCTCAGCCAGCGCCCATGTTGTGTATACAGGGGTGTTTGTGGATGGGTTTAAAAATAACTAGAAAACTC
AGGCCCCATCCATTTTCTCAGATCTCCTTGAAAATTGAGGCCTTTTCGATAGTTTCGGGTACAGGTAAAAATGGCCT
CCTGGCGTAAGCTTTTCAAGGTTTTTGGAGGCTTTTGTAAATTGTGATAGGAACTTTGGACCTTGAACCTTACG
TATCATGTGGAGAAGAGCCAATTTAACAACTAGGAAGATGAAAAGGGAAATTGTGGCCAAAACCTTTGGGAAAAG
GAGGTTCTTAAATCAGTGTTTCCCTTTGTGCACTTGTAGAAAAAAGAAAAACCTTCTAGAGCTGATTGAT
GGACAATGGAGAGAGCTTTCCCTGTGATTATAAAAAAGGAAGCTAGCTGCTCTACGGTCACTTTGCTTAGAGTA
TACTTTAACCTGGCTTTTAAAGCAGTAGTAAGTGCCCCACCAAGGTCTTAAAGCCATTTTGGAGCCTATTGC
ACTGTGTTCTCCTACTGCAAATATTTTCATATGGGAGGATGGTTTTCTTCTCATGTAAGTCTTGAATTGATTC
TAAGGTGATGTTCTTAGCACTTTAATTCCTGTCAAATTTTTGTCTCTCCCTTCTGCCATCTTAAATGTAAGCTG
AAACTGGTCTACTGTGTCTTAGGGTTAAGCCAAAAGACAAAAAAATTTTACTACTTTTGAGATTGCCCCAATG
TACAGAATTATATAATTCTAACGCTTAAATCATGTGAAAGGGTGTGCTGTGTCAGCCTTGCCCACTGTGACTTCA
AACCAAGGAGGAACCTTTGATCAAGATGCCCAACCCTGTGATCAGAACCTCCAAATACTGCCATGAGAACTAG
AGGGCAGGTGTTTCAAAAAGCCCTTTGAACCCCTTCTGCCCCTGTGTTAGGAGATAGGGATATTGGCCCCCTCAC
TGCAGCTGCCAGCACTTGGTCAGTCACTCTCAGCCATAGCACTTTGTTCACTGTCTGTGTCAGAGCACTGAGCT
CCACCTTTTCTGAGAGTTATTACAGCCAGAAAGTGTGGGCTGAAGATGGTTGGTTTCATGTGGGGGTATTATGT
ACCC

142/2682
FIGURE 133

MVMFKKIKSFEVVFNDPEKVYGSGERVAGRVIVEVCEVTRVKAVRILACGVAKVLWMQGSQQCKQTSEYLRVEDT
LLEDQPTGENEMVIMRPGNKYEYKFGFELPQGPLGTSFKGKYGCVDYWVKAFDRPSQPTQETKKNFVVLDLVD
VNTPDLMAFVSAKKEKKVSCMFIPDGRVSVSARIDRKGFCGEDEISIHADFENTCSRIVVPKAAIVARHTYLANG
QTKVLTQKLSSVRGNHIIISGTCASWRGKSLRVQKIRPSILGCNLRVEYSLLIYVSVPGSKKVILDPLVIGSRS
GLSSRTSSMASRTSSEMSWVDLNIPDTPEAPPCYMDVIPEDHRLESPTITPLDDMDGSQDSPIFMYAPEFKFMP
PTYTEVDPCILNNNVQ

143/2682
FIGURE 134

AGTGTGAAATCTTCAGAGAAGAATTTCTCTTTAGTTCTTTGCAAGAAGGTAGAGATAAAGACACTTTTTCAAAA
TGGCAATGGTATCAGAATTCCTCAAGCAGGCCTGGTTTATTGAAAATGAAGAGCAGGAATATGTTCAAACCTGTGA
AGTCATCCAAAGGTGGTCCCGGATCAGCGGTGAGCCCCATCTTACCTTCAATCCATCCTCGGATGTCGCTGCCT
TGCATAAGGCCATAATGGTTAAAGGTGTGGATGAAGCAACCATCATTGACATTCTAACTAAGCGAAACAATGCAC
AGCGTCAACAGATCAAAGCAGCATATCTCCAGGAAACAGGAAAGCCCCCTGGATGAAACACTTAAGAAAGCCCTTA
CAGGTCACCTTGAGGAGGTGTTTTAGCTCTGCTAAAACTCCAGCGCAATTTGATGCTGATGAACCTTCGTGCTG
CCATGAAGGGCCTTGGAACCTGATGAAGATACTCTAATTGAGATTTGGCATCAAGAACTAACAAAGAAATCAGAG
ACATTAACAGGGTCTACAGAGAGGAACCTGAAGAGAGATCTGGCCAAAGACATAACCTCAGACACATCTGGAGATT
TTCGGAACGCTTTGCTTTCTCTTGCTAAGGGTGACCGATCTGAGGACTTTGGTGTGAATGAAGACTTGGCTGATT
CAGATGCCAGGGCCTTGATGAAGCAGGAGAAAGGAGAAAGGGGACAGACGTAAACGTGTTCAATACCATCCTTA
CCACCAGAAGCTATCCACAACCTTCGCAGAGTGTTTCAGAAATACACCAAGTACAGTAAGCATGACATGAACAAAG
TTCTGGACCTGGAGTTGAAAGGTGACATTGAGAAATGCCTCACAGCTATCGTGAAGTGCGCCACAAGCAAACCAG
CTTTCTTTGCAGAGAAGCTTCATCAAGCCATGAAAGGTGTTGGAACTCGCCATAAGGCATTGATCAGGATTATGG
TTTCCCGTTCTGAAATTGACATGAATGATATCAAAGCATTCTATCAGAAGATGTATGGTATCTCCCTTGCCAAG
CCATCCTGGATGAAACCAAGGAGATTATGAGAAAATCCTGGTGGCTCTTTGTGGAGGAACTTAAACATTCCCTT
GATGGTCTCAAGCTATGATCAGAAGACTTTAATTATATATTTTCATCCTATAAGCTTAAATAGGAAAGTTTCTTC
AACAGGATTACAGTGTAGCTACCTACATGCTGAAAAATATAGCCTTTAAATCATTTTATATTATAACTCTGTAT
AATAGAGATAAGTCCATTTTTTAAAAATGTTTTCCCCAAACCATAAAACCCTATACAAGTTGTTCTAGTAACAAT
ACATGAGAAAGATGTCTATGTAGCTGAAAATAAAATGACGTCACAAGAC

144/2682

FIGURE 135

MAMVSEFLKQAWFIENEEQEYVQTVKSSKGGPGSAVSPYPTFNPSSDVAALHKAIMVKGVDIATIIDILTKRNNA
QRQQIKAAYLQETGKPLDETLKKALTGHLEEVVLALLKTPAQFDADELRAAMKGLGTDEDTLIEILASRTNKEIR
DINRVYREELKRDIAKIDTSITSGDFRNALLSLAKGDRSEDFGVNEDLADSDARALYEAGERRKGTIDVNVFNTIL
TTRSYPQLRRVFQKYTKYKDHMNKVLDELKGDIEKCLTAIVKCATSKPAFFAEKLBQAMKGVGTRHKALIRIM
VSRSEIDMNDIKAFYQKMYGISLCQAILDETKGDYEKILVALCGGN

145/2682
FIGURE 136

GAAAGCTGTATTTGCTGCACGTGGAAATCTCCGTTATTTTCCAGCACCCAACAGTAGCGTAATGGGAGTAACGGA
CTTAACCTCATTTCTCTTTTCAGAGCATTTAGCCTTCATATGCCCTTCCCTGCGTCTCCCCAGGCCGTCAGA
CTTGAGTTCTGCTCGCTTCCCGGCGCGGTGCGAGCCCTCAGCCCACTTAGGATAATGGCGACAGCTGAGGTACT
GAACATTGGTAAAAAATTATATGAGGGTAAACAAAAGAAGTCTACGAATTGTTAGACAGTCCAGGAAAAAGTCCT
CCTGCAGTCCAAGGACCAGATTACAGCAGGAAATGCAGCTAGAAAAAACACCTGGAAGGAAAAGCTGCAATCTC
AAATAAAATCACCAGTTGTATTTTTCAGTTATTACAGGAAGCAGGTATTAAAACTGCCTTCACCAGAAAAATGTGG
GGAGACAGCTTTTCATTGCACCGCAGTGTGAAATGATTCCAATTGAATGGGTTTGCAGAAGAATAGCAACTGGTTT
TTTTCTCAAAAGAAATCCTGGTGTCAAGGAAGGATATAAGTTTTACCCACCTAAAGTGGAGTTGTTTTTCAAGGA
TGATGCCAATAATGACCCACAGTGGTCTGAGGAACAGCTGATTGCTGCAAAATTTTGCTTTGCTGGACTTCTTAT
AGGCCAGACTGAAGTGGATATCATGAGTCATGCTACACAGGCTATATTTGAAATACTGGAGAAATCCTGGTTGCC
CCAGAATTGTACACTGGTTGATATGAAGATTGAATTTGGTGTGATGTAACCACCAAAGAAATTGTTCTTGCTGA
TGTATTGACAATGATTCTGGAGACTCTGGCCATCAGGAGATCGAAGCCAACAGAAAGACAAACAGTCTTATCG
GGACCTCAAAGAAAGTAACCTCCTGAAGGGCTCCAAATGGTAAAGAAAAACTTTGAGTGGGTTGCAGAGAGAGTAGA
GTTGCTTTTGAATCAGAAAGTCAGTGCAGGGTTGTAGTGTGATGGGCTCTACTTCTGATCTTGGTCACTGTGA
AAAAATCAAGAAGGCCTGTGGAAATTTTGGCATTCCATGTGAACCTCGAGTAACATCTGCGCATAAAGGACCAGA
TGAAACTCTGAGGATTAAGCTGAGTATGAAGGGGATGGCATTCTACTGTATTTGTGGCAGTGGCAGGCAGAAG
TAATGGTTTGGGACCAGTGATGTCTGGGAACACTGCATATCCAGTTATCAGCTGTCTCTCCCTCACACCAGACTG
GGGAGTTCAAGGATGTGGTCTTCTCTTCGACTACCCAGTGGTCTTGGCTGTTCAACCGTACTTTCTCCAGAAGG
ATCAGCTCAATTTGCTGCTCAGATATTTGGGTTAAGCAACCATTGTTGATGGAGCAAACTGCGAGCAAGCATT
GAACACATGGATTTCTTGAAGCAGGCTGACAAGAAATCAGAGAATGTAATTTATAGAAAGAATGCCATTGAA
TTTTTTAGGGGAAAAACTACAAATTTCTAATTTAGCTGAAGGAAAAATCAAGCAAGATGAAAAGGTAATTTTAAAT
TAGAGAACACAAATAAATGTATTAGTGAATAAATGCTTCTCTAGATCCATATTAATAACATGAGCATCTAAC
CCTCCTTTCTTAGGCTAGACACCAAGATATTTAGCCAGCCTTTATCATTCTCTTACTTTATCCTTTTTCTTA
AGTATTGGTGGTCACTACTATTGAGTTTCTTCTTAACACTGATTAAATGATCTTAACCTCCCTCAGCTAAAAGT
GCATTACTGACTCCAGCTATATTTCTCCAGACTTGCAATTTTTTTTTTTTTTTTGGAGACAGGGTCTCACTGT
CCCAGGCTGGAGTGCAGTGGCGTGATCTCAGTTCACTGTGCTTTCCCTCCTGGGCTCAAGCAGTCTCTCCACCT
CAGCCTCTCGACTAACAGGGACTATAATCTTGAGCACCATGCCGAGCTAATTTTATTTTTTTGTAGAGATGAGCT
CTCACTATGTACCCAGGTTCTGCTCAAACCTGAACCCTAGTAATTTCTCTATCTCAGCCTCCCAAAGTGCTA
GGGTTACAGACATGAGCCACTGTGCCTGTCTAGACTTGTACTTTCAACTGTCCATTTCTCCCTGTCTGTCCCATG
GGCACTCATGAAAAAACAGAATGCTCCCAACTTTATTCACTCTCCAAGCCTGTAGCTCTTGGTATACTCACTGTT
GCAAGTCAGAAGCTTGATTTCATCATTGATGTTTTCTCACGTTTCACATCTCACTCATACCAAGTCATGTTGG
TGTTAATTTCTGATTAACCCCTGAATTTACCGTCTTCTCATCTCTGTACAAAAGCCTCAAGTGAGGGTCAAAT
CAACATTATCCTGATCTAGACAGCCCCATTCTCAATCCACCCTTTTCCAAGTTGATTGCCCAAGGACTTCTAAC
AATAAACTCTCTTTTGACCACAGACTTCTTTGAAAATATACATGCTGTTGACCCTCTCTGTAGAAAACCGACA
CATAAACTTACCAACAGATTTTCATTGGTTCTTGGGTTCTCCCGAAGCCTATCCATGGTTTATAGATTAAGAATT
GATGAGGTAGCTGGGCACAGTGGCTCACACCTACGATCACAGCACTTCGGGAGGCTGAAGCAAGCAGATCACTTG
AGGTGAGGAGTTGAGACCAGCCTGGCCAACATGGTGAACCCCTGTCTCTACTAAAAATACAAAAAGTAGCCAGC
CGTGATGACAGGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCATGAGAATTGCTTGAACCCGGGAGGCGGA
GGTTGCAGTGAGCCTGGATCATGCCACTGCACTCCAACCTGGGCAGCAGAGCAAGACTCTGTCTCAAAAGGGGAA
AAAAAAATGCTGATGTGACCCATGAAGGGAACCTATTTTCTCGTAATTTTGGACTGCCACACATTGGTACCT
TTAGTTCTCTGAAGGCCACGTTTTATCATTAAAGACCTATTTGTTAGCTAGTAGAGCTTTATGTTCTGCTGTCCA
TGAAACCTTCTGTAACCACAGTGACTACAAGTAGTTCTTCTCTATTGAATTATTAGGTCCAGAATAGAAGATGT
CATTGTACACTTTATTTCCCTCACACTGTGTTATGCTCTGATGTGCTATGCTTAGCTATCTGTGAGAGATTAGTA
AATTATAAACTCATGTGTACTACTTAAGTTTATATCTTATGCTAGTTTATAAGAACAATTAAGGACTTAGAA
GATTAATAAAAAAAAAAAAAA

146/2682
FIGURE 137

MATAEVLNIGKKLYEGKTKEVYELLDSPGKVLQSKDQITAGNAARKNHLEGKAAISNKITSCIFOLLQEAGIKT
AFTRKCGETAFIAPQCEMPIEWVCRRIATGSFLKRNPVGVEGYKFYPPKVELFFKDDANNDPQWSEEQLIAAKF
CFAGLLIGQTEVDIMSHATQAIFEILEKSWLPQNCTLVDMKIEFGVDVTTKEIVLADVIDNDSWRLWPSGDRSQQ
KDKQSYRDLKEVTPEGLQMVKKFEWVAERVELLLKSESQCRVVVLMGSTSDLGHCEKIKKACGNFGIPCELRT
SAHKGPDETLRIKAEYEGDGIPTVFVAVAGRSNGLGPVMSGNTAYPVISCPPLTPDWGVQDVWSSLRLPSGLGCS
TVLSPEGSAQFAAQIFGLSNHLVWSKLRASILNTWISLKQADKKIRECNL

147/2682
FIGURE 138

AAGAAAAAATAGGCCTGGTTGCCAXATTAAGGTCCCCTGGGCTATTTTAAACCGGATTGGATACCXAGGTCTT
TCCAXAGGCCGTATTTTGCCCCCGTAACCCXTAAAAAAGATTTCCAAATGCCGTTTCAGAACCTG
GGTTTAAATAGCAGTATTGAATTTGTAAGCTTAGTAGTTGCAGAAATTGAACACTAGGTGGCACTCAGTTATCTT
AACAGGGGAAGTACTGATACAATTGTTGACTTTTCTTTTACTATGTGTAAGAAATACCCCAAACATGAAAAGATT
GTTTGTATCATATGCATGTATGTAGAATATTTTGCAGAGCAGAAAGATTATGTTAGAAGTGTGATTTTTATTTT
CAGAAGTCATATACATGTAAGCTACAATTTTGAGTGCCTTATAAACACTTAAGATATATATAAAATTTTAAATT
CATAGCAACTTGTAATAAATAAAATACTTGTGAAAAGCCTTTTCAACATATCCCTAAGCTAAGGGAAGAGGAA
GGAATAACAACCTCAGTGAAAAGATGGTCTCCAGTTTCTGAATGAAAAGCTACAGCTGAGAAATAAAATAAAATG
TCATGCTGCAGAAATATGTTATACCCTTATTTTGTGTTAAGGATATATTTTATTATGTGAATGCTTTTGTGTTTGT
TTTTGTGTTTTGTTTTTGCTTGTATTGGGAATTAGCTTTACTGGTAACTTCCTTATTTAGTTTTTTAGTGGTCAA
CTCTAATAAAATGAACTAGGGCTGAGCTAGTTAGCCCTCACTAGCCAACTGAAACTCTATGCAACATTAAAG
AAGAGATCCATCATGTAGCTTGTGACACTTTTATTTTATTAGTCACCGGGGAACCTTTTCAGTGATGAAAATACAC
AGGGTAATAAACCTTCACATGGCTTCAAAAGGAAAACAAGCAAATCTTCTCTAATCTACTCTTACTATAATTTCC
TAAGTGTACACCAAACCTCTGGATTTAAAAATCTGAAGTACTATAGAACATTAAAGTTGAAGAATGAAAATTAAGAG
TACGTATTCATGGTTTATATTTCTTATTCTATGGAGTTCGTGAACACATCTAGGTGGAATGCATCTGAGACTAAG
GGCTGGTTTTTAATCCTCATAAGAAACCAGCCTTGAAGAATTAACAATTCTCTTCATTGGTATTCTAAACCTCCT
AAGATATTTAGGCTTCTGTACATAAAAGTGTGTTTTGCTAAATTTACAGTATATATAGATCCTTTCATATTATTTT
ACTAAGAATGTTTGAACCTTGCATATTTGATATAGTTCCCTGGTAGGAATAGCACAGCTCAAACATTAGTTTTTCT
ACTTACCTCCTCTAACACGTGGTTTGTCTGGAGAGTTTCTAAAAATTCAGCTATAACCCAGTTCATGTATTTAC
TGGTGATTGTTCTTGCTGAGGTAGTAACAGCCCAATCTTGGGCTGTAAATCCTAGGAAATCTCGAATCATAGTG
ATTAAAAATAGTTGGGGTAAAGTTGTAGCTTATATGCAATACTACTTGGAGGAATCTTCTACTAATTTGTATTTA
ATGTGGAAATGTATAGTTTCATTGATTTAATCATAAATAATGGAAATGGTCTCCAAGAAGTTTATTTTTTCATT
TTTTTGCTTATACACTCTGATTCCCTATAATACAGTGCTATAAGCTATGCACAGAAAATAAAATGTTTGAAATCCA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAXGGGGG

148/2682
FIGURE 139

MVLFLFFVFVFCCLYWELALLVTSLSF

149/2682
FIGURE 140A

CGCGGGTCTGTGGAGAGCCGGGTGCGAGCGGCGGCAGCACGAGGGGAAAAAGAGCTGAGCGGAGACCAAAGTCAGC
CGGGAGACAGTGGGTCTGTGAGAGACCGAATAGAGGGGTGGGGCCACGAGCGCCATTGACAAGCAATGGGGAAG
AAACAGAAAAACAGAGCGAAGACAGCACCAAGGATGACATTGATCTTGATGCCTTGCTGCAGAAATAGAAGGA
GCTGGTGCTGCCAAAGAACAGGAGCCTCAAAAAGTCAAAAGGAAAAAGAAAAAGAGAAAAAAAGCAGGACTTT
GATGAAGATGATATCCTGAAAGAACTGGAAGAATTGTCTTTGGAAGCTCAAGGCATCAAAGCTGACAGAGAACT
GTTGCAGTGAAGCCACAGAAAACAATGAAGAGGAATTCACCTCAAAAGATAAAAAAGAAAGGACAGAAGGGC
AAAAACAGAGTTTTGATGATAATGATAGCGAAGAATTGGAAGATAAAGATTCAAAATCAAAAAAGACTGCAAAA
CCGAAAGTGGAATGTACTCTGGGAGTGATGATGATGATGATTTTAACTAACTTCTTAAAAAGCTAAAGGGAAA
GCTCAAAATCAAAATAAGAAGTGGGATGGGTGAGAGGAGGATGAGGATAACAGTAAAAAATTAAGAGCGTTCA
AGATAAATTTCTTCTGGTGAAAGTGGTGATGAATCAGATGAATTTTGAATCTAGAAAAGGACAGAAAAAAAT
CAGAAAAACAAGCCAGGTCTTAACATAGAAAGTGGGAATGAAGATGATGACGCTCTTCAAAATTAAGACAGTG
GCCCCAAAGAAGGCAGAAAAAGAGGAGCGCGAGAGAAAAAGCGAGATGAAGAAAAAGCGAACTGCGGAAGCTG
AAAGAAAAAGAAGAGTTAGAAACAGGTAAAAAGGATCAGAGTAAACAAAAGGAATCTCAAAGGAAATTTGAAGAA
GAACTGTAAATCCAAAGTGACTGTTGATACTGGAGTAATTCCTGCCTCTGAAGAGAAAGCAGAGACTCCCA
GCTGCAGAAGATGACAATGAAGGAGACAAAAAGAAAGATAAGAAGAAAAAGAAAGGAGAAAAAGGAAGAAAA
GAGAAAGAGAAGAAAAAGGACCTAGCAAAGCCACTGTTAAAGCTATGCAAGAAGCTCTGGCTAAGCTTAAAGAG
GAAGAAGAAAGACAGAAGAGAGAAGAGGAAGAACGTATAAAACGGCTTGAAGAATTAGAAGCCAAAGCGTAAAGAA
GAGGAACGATTGGAACAAGAAAAAGAGAAAGGAAAAAGCAAAAAAGAAAGAAAGAAAGAACGCTTGAAAAAA
GAAGGGAACTTTTTAACTAAATCCAGAGAGAAGCCAGAGCCAGAGCCGAAGCTACTCTTAACTGCTACAAGCT
CAGGGTGTGAAGTGCCATCAAAAGACTCTTTGCCAAAGAAGAGGCCAATTTATGAAGATAAAAAAGGAAAAAA
ATACCACAGCAGCTAGAAAGTAAAGAAGTGCTGAATCAATGGAATTATGTGCTGCTGTAGAAGTTATGGAACAA
GGAGTACCAGAAAAGGAAGAGACACCACCTCTGTTGAACCAGAAGAAGAAGATACTGAGGATGCTGGATTG
GATGATTGGGAAGCTATGGCCAGTGATGAGGAGACAGAAAAAGTAGAAGGAAACACAGTTCATATAGAAGTAAAA
GAAAACCTGAAGAGGAGGAGGAGGAGGAAGAAGAGGAAGAAGATGAAGAAAGTGAAGAAGAGGAGGAAGAG
GAGGGAGAAAGTGAAGGCAGTGAAGGTGATGAGGAAGATGAAAAGGTGTCAGATGAGAAGGATTCAGGGAAGACA
TTAGATAAAAAAGCCAAAGTAAAGAAATGAGCTCAGATTCTGAATATGACTCTGATGATGATCGGACTAAAGAAGAA
AGGGCTTATGACAAAGCAAAACGGAGGATTGAGAAACGGCGACTTGAACATAGTAAAAATGTAAACACCGAAAAG
CTAAGAGCCCTATTATCTGCGTACTTGGGCATGTGGACACAGGGAAGACAAAAATCTAGATAAGCTCCGTCAC
ACACATGTACAAGACGGTGAAGCAGGTGGTATCACACAACAAATTTGGGCCACCAATGTTCTCTTGAAGCTATT
AATGAACAGACTAAGATGATTAAAAATTTTGATAGAGAGAATGTACGGATTCCAGGAATGCTAATTATTGATACT
CCTGGGCATGAATCTTTCAGTAATCTGAGAAATAGAGGAAGCTCTCTTTGTGACATTGCCATTTTAGTTGTTGAT
ATTATGCATGGTTTGGAGCCCCAGACAATTGAGTCTATCAACCTTCTCAAATCTAAAAATGTCCCTTCAATTGTT
GCACTCAATAAGATTGATAGTTATATGATTGGAAGAAAGAGTCTGACTCTGATGTGGCTGCTACTTTAAAGAAG
CAGAAAAAGAATACAAAGATGAATTTGAGGAGCGAGCAAAGGCTATTATTGTAGAATTTGCACAGCAGGGTTTG
AATGCTGCTTTGTTTATGAGAATAAAGATCCCCGCACTTTTGTGCTTTGGTACCTACCTCTGCACATACTGGT
GATGGCATGGGAAGTCTGATCTACCTTCTTGTAGAGTTAACTCAGACCATGTTGAGCAAGAGACTTGCACACTGT
GAAGAGCTGAGAGCACAGGTGATGGAGGTTAAAGCTCTCCCGGGATGGGCACCCTATAGATGTCATTTTGATC
AATGGGCGTTTGAAGGAAGGAGATACAATCATTGTTCTGGAGTAGAAGGGCCATTGTAACCTCAGATTGAGGC
CTCCTGTTACCTCCTCTATGAAGGAATTACAGTGAAGAACCAGTATGAAAAGCATAAAGAAGTAGAAGCAGCT
CAGGGGGTAAAGATTCTTGAAAAGACCTGGAGAAAACATTGGCTGGTTTACCCCTCCTGTGGCTTATAAAGAA
GATGAAATCCCTGTTCTTAAAGATGAATTGATCCATGAGTTAAAGCAGACACTAAATGCTATCAAATTAGAAGAA
AAAGGAGTCTATGTCCAGGCATCTACACTGGGTTCTTTGGAAGCTCTACTGGAATTTCTGAAAACATCAGAAGTG
CCCTATGCAGGAATTAACATTGGCCCAGTGCATAAAAAAGATGTTATGAAGGCTTCAGTGATGTTGGAACATGAC
CCTCAGTATGCAGTAATTTTGGCCTTCGATGTGAGAATTGAACGAGATGCACAAGAAATGGCTGATAGTTTAGGA
GTTAGAATTTTTAGTGCAGAAATTATTTATCATTATTTTATGATGCCTTTACAAAATATAGACAAGACTACAAGAAA
CAGAAACAAGAAGAATTAAGCACATAGCAGTATTTCCCTGCAAGATAAAAATCCTCCCTCAGTACATTTTTAAT
TCTCGAGATCCGATAGTATGGGGTGACGGTGGAAGCAGGTGAGTGAACAGGGGACACCCATGTGTGTCCCA
AGCAAAAATTTGTTGACATCGGAATAGTAACAAGTATTGAAATAAACCATAAACAAGTGGATGTTGCAAAAAA

150/2682
FIGURE 140B

GGACAAGAAGTTTGTGTAAAAATAGAACCTATCCCTGGTGAGTCACCCAAAAATGTTTGGAAGACATTTTGAAGCT
ACAGATATTCTTGTAGTAAGATCAGCCGGCAGTCCATTGATGCACTCAAAGACTGGTTCAGAGATGAAATGCAG
AAGAGTGACTGGCAGCTTATTGTGGAGCTGAAGAAAGTATTGAAATCATCTAATTTTTTTCATGGAGCAGGAA
CTGGAGTAAATGCAATACTGTGTTGTAATATCCCAACAAAAATCAGACAAAAAATGGAACAGACGTATTTGGACA
CTGATGGACTTAAGTATGGAAGGAAGAAAAATAGGTGTATAAAATGTTTTCCATGAGAAACCAAGAACTTACAC
TGGTTTGACAGTGGTCAGTTACATGTCCCCACAGTTCCAATGTGCCTGTTCACTCACCTCTCCCTTCCCCAACCC
TTCTCTACTTGGCTGCTGTTTTAAAGTTTGCCCTTCCCCAAATTTGGATTTTTATTACAGAGTCTAAAGCTCTTT
CGATTTTATACTGATTAAATCAGTACTGCAGTATTGATTAAACCA

151/2682
FIGURE 141

MGKKQKNKSEDSTKDDIDLALAAEIEGAGAAKEQEPQKSKGKKKKEKKQDFDEDDILKELEELSLEAQGIKAD
RETVAVKPTENNEEEFTSKDKKKKGQKGGKQSFDDNDSEELDKDSKSKKTAKPKVEMYSGSDDDDDFNKLPKKA
KGKAQKSNKKWDGSEEDEDNSKKIKERSRINSSGESGDESDEFLOSRKGQKNQKNKPGPNIESGNEDDDASFKI
KTVAQKKAEEKERERKKRDEEKAKLRKLKEKEELETGKKDQSKQKESQRKFEEETVKSQVTVDTGVIPASEEKAE
TPTAAEDDNEGDKKKKDKKKKKGEKEEKEKEKKKGPSKATVKAMQEALAKLKEEEEERQKREEEERIKRLEELEAK
RKEERLEQEKREKKQKEKERKERLKEGKLLTKSQREARARAEATLKLQAQGVVPSKDSLPPKRPFIYEDKK
RKKIPQQLESKEVSESMELCAAVEVMEQGVPEKEETPPPVEPEEEEDTEDAGLDDWEAMASDEETEKVEGNTVHI
EVKENPEEEEEEEEEEEDEESEEEEEEGESEGESEDEDEKVSDEKDSGKTLDDKKPSKEMSSDSEYDSDDDR
KEERAYDKARRIEKRRLEHRSKNVNTKLRAPIIICVLGHVDTGKTKILDCLRHTHVQDGEAGGITQIWIATNVPL
EAINEQTKMIKNFDRENVRIPIGLIIDTPGHESFSNLRNRGSSLCDIAILVVDIMHGLEPQTIESINLLKSKKCP
FIVALNKKIDRLYDWKKSPDSVAATLKKQKNTKDEFEEERAKAIIVEFAQQGLNAALFYENKDPRTFVSLVPTSA
HTGDGMGSLIYLLVELTQTMLSKRLAHCEELRAQVMEVKALPGMGTTIDVILINGRLKEGDTIIVPGVEGPVITQ
IRGLLLPPPMKELRVKNQYKHKKEVEAAQGVKILGKDLEKTLAGLPLLVAYKEDEIPVLKDELIHELKQTLNAIK
LEEKGVYVQASTLGSLEALLEFLKTSEVPYAGINIGPVHKKDVMKASVMLEHDPQYAVILAFDVRIERDAQEMAD
SLGVRIFS AEIIYHLFADF TKYRQDYKKQKEEFKHIAVFPCKIKILPQYIFNSRDPIMMGVTVEAGQVKQGT
PM CVPSKNFVDIGIVTSIEINHKKQVDVAKKGQEVCKIEPIPGESPKMFGRHFEATDILVSKISRQSIDALKDWFRD
EMQKSDWQLIVELKKVFEII

152/2682
FIGURE 142

CCCGGACGTGCGGCTCCCTCGGCCTCCTCGCCATGACGCGGACGACTCCCGGGCCCCCAAGGGCTCCTTGCGG
AAGTTCCITGGAGCACCTCTCCGGGGCCGGCAAGGCCATCGGCGTGCTGACCAGCGGGGGGATGCTCAAGGTATG
AACGCTGCCGTCCGTGCCGTGGTGCGCATGGGTATCTACGTGGGGGCCAAGGTGTACTTCATCTACGAGGGCTAC
CAGGGCATGGTGGACGGAGGCTCAAACATCGCAGAGGCCGACTGGGAGAGTGTCTCCAGCATCCTGCAAGTGGGC
GGGACGATCATTGGCAGTGCGCGGTGCCAGGCCTTCGCGACGCGGGAAGGCCGCTGAAGGCTGCTTGCAACCTG
CTGCAGCGCGGCATACCAACCTGTGTGTGATCGCGGGGACGGGAGCCTCACCGGGGCCAACCTCTTCCGGAAG
GAGTGGAGTGGGCTGCTGGAGGAGCTGGCCAGGAACGGCCAGATCGATAAGGAGGCCGTGCAGAAGTACGCCTAC
CTCAACGTGGTGGGCATGGTGGGTCCATCGACAATGATTTCTGCGGCACCGACATGACCATCGGCACGGACTCC
GCCCTGCACAGGATCATCGAGGTCTGCGACGCCATCATGACCACGGCCAGAGCCACCAGAGGACCTTCGTTCTG
GAGGTGATGGGACGACACTGTGGGTACCTGGCCCTGGTGAGTGCCTTGGCCTGCGGTGCGGACTGGGTGTTCTT
CCAGAATCTCCACCAGAGGAAGGCTGGGAGGAGCAGATGTGTGTCAAACCTCTCGGAGAACCCTGCCGGAAAAA
AGGCTGAATATTATTATTGTGGCTGAAGGAGCAATTGATACCCAAAATAAACCCATCACCTCTGAGAAAATCAAA
GAGCTTGTCTGTCACGACGCTGGGCTATGACACACGTGTGACCATCCTCGGGCACGTGCAGAGAGGAGGGACCCCT
TCGGCATTTCGACAGGATCTTGGCCAGCCGCATGGGAGTGGAGGCAGTCATCGCCTTGCTAGAGGCCACCCCGGAC
ACCCAGCTTTCGCTGTGTACTGAACGGGAACACGCGCGTGCCTGCCCTGATGGAGTGCCTGCAGATGACT
CAGGATGTGCAGAAGCGATGGACGAGAGGAGATTTCAAGATGCGGTTGACTCCGAGGGAGGAGCTTTGCGGGC
AACCTGAACACCTACAAGCGACTTGCCATCAAGCTGCCGGATGATCAGATCCCAAAGACCAATTGCAACGTAGCT
GTATCAACGTGGGGGCACCCGCGGTGGGATGAACGCGGCCGTACGCTCAGCTGTGCGCGTGGGCATTGCCGAC
GGCCACAGGATGCTCGCCATCTATGATGGCTTTGACGGCTTCGCCAAGGGCCAGATCAAAGAAATCGGCTGGACA
GATGTGCGGGGCTGGACCGGCCAAGGAGGCTCCATTCTTGGGACAAAACGCGTTCTCCCGGGGAAGTACTTGGAA
GAGATCGCCACACAGATGCGCACGCACAGCATCAACGCGCTGTGATCATCGGTGGATTTCGAGGCCTACCTGGGA
CTCCTGGAGCTGTACGCCGCCCGGAGAAGCACGAGGAGTTCTGTGTCCCATGGTCATGGTTCCCGCTACTGTG
TCCAACAATGTGCCGGGTTCCGATTTACGATCGGGGCAGACACCGCCCTGAACACTATCACCGACACCTGCGAC
CGCATCAAGCAGTCCGCCAGCGGAACCAAGCGGCGGTGTTTCATCATCGAGACCATGGGCGGCTACTGTGGCTAC
CTGGCCAACATGGGGGGGCTCGCGGCCGGAGCTGATGCCGCATACATTTTCGAAGAGCCCTTCGACATCAGGGAT
CTGCAGTCCAACGTGGAGCACCTGACGGAGAAAATGAAGACCACCATCCAGAGAGGCCTTGTGCTCAGAAATGAG
AGCTGCAGTGAAAATACACCACCGACTTCATTTACCAGCTGTATTGAGAAGAGGGCAAAGGCGTGTGTGACTGC
AGGAAGAACGTGCTGGGTACATGCAGCAGGTGGGGCACCCCTCTCCATTTGATAGAACTTTGGAACCAAAATC
TCTGCCAGAGCTATGGAGTGGATCACTGCAAACTCAAGGAGGCCCGGGGCAGAGGAAAAAATTTACCACCGAT
GATTCCATTTGTGTGCTGGGAATAAGCAAAAGAAACGTTATTTTCAACCTGTGGCAGAGCTGAAGAAGCAAACG
GATTTTGAGCACAGGATTCCAAAGAACAGTGGTGGCTCAAGCTACGGCCCTCATGAAAATCCTGGCCAAGTAC
AAGGCCAGCTATGACGTGTGCGACTCAGGCCAGCTGGAACATGTGCAGCCCTGGAGTGTCTGACCCAGTCCCGCC
TGCATGTGCTGCAGCCACCGTGGACTGTCTGTTTTGTAACACTTAAGTTATTTATCAGCACTTTATGCACGT
ATTATTGACATTAATACCTAATCGGCGAGTGCCCATCTGCCCCACCAGCTCCAGTGCCTGCTGTCTGTGGAGTGT
GTCTCATGCTTTCAGATGTGCATATGAGCAGAATTAATTAA

153/2682
FIGURE 143

MDADDSRAPKGSRLRFLEHLSGAGKAIGVLTSGGDAQGMNAAVRAVVRMGIYVGAKVYFIYEGYQGMVDGGSNIA
EADWESVSSILQVGGTIIIGSARCQAFRTREGRLKAACNLLQRGITNLCVIGGDGSLTGANLFRKEWSGLLEELAR
NGQIDKEAVQKYAYLNVVGMVGSIDNDFCGTDMTIGTDSALHRIIEVVDAIMTTAQSHQRTFVLEVMGRHCGYLA
LVSALACGADWVFLPESPPEEGWEEQMCVKLSENRARKKRLNIIIVAEGAIDTQNKPIITSEKIKELVVTQLGYDT
RVTILGHVQRGGTPSAFDRILASRMGVEAVIALLEATPDTPACVVSLNGNHAVRLPLMECVQMTQDVQKAMDERR
FQDAVRLRGRSFAGNLNTYKRLAIKLPDDQIPKTNVAVINVGAPAAGMNAAVRSAVRVGIADGHRMLAIYDGF
DGFAKGQIKEIGWTDVGGWTGQGSILGTRKRVLPKYLEE IATQMRTHSINALLIIGGFEAYLGLELSAAREKH
EEFCVPMVMVPATVSNNVPGSDFSIGADTALNTITDTCRIKQSASGTRRVFIIETMGGYCGYLANMGGLAAGA
DAAYIFEEPFDIRDLQSNVEHLTEKMKTTIQRGLVLRNESCSENYTTDFIYQLYSEEGKGVFDCRKNVLGHMQQG
GAPSPFDRNFGTKISARAMEWITAKLKEARGRGKFTTDDSIKVLGISKRNVIQFPAELKKQTD FEHRIPKEQW
WLKLRPLMKILAKYKASYDVSDSGQLEHVQPWSV

154/2682
FIGURE 144

CCATTGTGCTCTAAAGGGAAGGTGCTGTGTAATCATTAAAGGAGCGGAGGCTTTTGGAGCTGCTAAATGCGGGAT
TACCTCGGTGCCGATCAGCGGAAGACCAAGAGGATGAGAAGGACGACAAGCCCATCCGAGCTCTGGATGAGGGG
GATATTGCCTTGTTGAAAACCTTATGGTCAGAGCACTTACTCTAGGCAGATCAAGCAAGTTGAAGATGACATTCAG
CAACTTCTCAAGAAAATTAATGAGCTCACTGGTATTAAAGAATCTGACACTGGCCTGGCCCCACCAGCACTCTGG
GATTTGGCTGCAGATAAGCAGACACTCCAGAGTGAACAGCCTTTACAGGTTGCCAGGTGTACAAAGATAATCAAT
GCTGATTCCGAGGACCCAAAATACATTATCAACGTAAAGCAGTTTGCCAAGTTTGTGGTGGACCTTAGTGATCAG
GTGGCACCTACTGACATTGAAGAAGGGATGAGAGTGGGCGTGGATAGAAATAAATATCAAATTCACATTCCATTG
CCTCCTAAGATTGACCCAACAGTTACCATGATGCAGGTGGAAGAGAAACCTGATGTCACATACAGTGATGTTGGT
GGCTGTAAGGAACAGATTGAGAACTGCGAGAAGTAGTTGAAACCCCATTTCTATCCAGAGAGGTTTGTGAAC
CTTGGCATTGAGCCTCCCAAGGGCGTGCTGCTCTTTGGTCCACCCGGTACAGGCAAGACACTCTGTGCGCGGGCA
GTTGCTAATCGGACTGATGCGTGCTTCATTGAGTTATTGGATCTGAGCTTGACAGAAATACGTCGGTGAGGGG
GCTCGAATGGTTCGTGAACCTTTTGAATGGCCAGAACAAAAAGCCTGCCTTATCTTCTTTGATGAAATTGAT
GCTATTGGAGGGGCTCGTTTTGATGATGGTGCTGGAGGTGACAATGAAGTGCAGAGAACAAATGTTGGAACGTATC
AATCAGCTTGATGGTTTTGATCCTCGAGGCAATATTAAAGTGCTGATGGCCACTAACAGACCTGATACTTTGGAT
CCAGCACTGATGAGGCCAGGGAGATTGGATAGAAAAATTGAATTTAGCTTGCCCGATCTAGAGGGTCGGACCCAC
ATATTTAAGATTACGCTCGTTCAATGAGTGTTGAAAGAGATATCAGATTTGAACTGTTAGCACGACTGTGTCCA
AATAGCACTGGTGCTGAGATTAGAAGCGTCTGCACAGAGGCTGGTATGTTTGCCATCAGAGCACGGCGAAAAATT
GCTACCGAGAAGGATTTCTTGGAAGCTGTAAATAAGGTCATTAAGTCTTATGCCAAATTCAGTGCTACTCCTCGT
TACATGACATACAACTGAACCCTGAAGGCTTTCAAGTGAAAACCTTAAATTGGAATCCTAACCTTATATAGACTT
GTTAATAACCAATTCATAAACAAATAAATGGCTTCAACTTTAGAGCACAAATGG

155/2682
FIGURE 145

MPDYLGADQRKTKEDKDDKPIRALDEGDIALLKTYGQSTYSRQIKQVEDDIQQLKKINELTGIKESDTGLAPP
ALWDLAADKQTLQSEQPLQVARCTKIINADSEDPKYIINVKQFAKFVVDLSQVAPTDIEEGMRVGVDNRKYQIH
IPLPPKIDPTVTMMQVEEKPDVTYSQVGGCKEQIEKLREVVETPLLHPERFVNLGIEPPKGVLLFGPPGTGKTLC
ARAVANRTDACFIRVIGSELVQKYVGEGARMVRELFEMARTKKACLIFFDEIDAIGGARFDDGAGGDNEVQRTML
ELINQLDGFDPGRNIKVLMTNRPDTLDPALMRPGRDRKIEFSLPDLEGRTHIFKIHARMSVERDIRFELLAR
LCPNSTGAEIRSVCTEAGMFAIRARRKIATEKDFLEAVNKVIKSYAKFSATPRYMTYN

156/2682
FIGURE 146

ATCCGTGTCCTTGCGGTGCTGGGCAGCAGACCGTCCAAACCGACACGCGTGGTATCCTCGCGGTGTCCGGCAAGA
GACTACCAAGACAGACGCTATGACTGAGGCTGATGTGAATCCAAAGGCCTATCCCTTGCCGATGCCCACCTCAC
CAAGAAGCTACTGGACCTCGTTCAGCAGTCATGTAAGTATAAGCAGCTTCGGAAAGGAGCCAATGAGGCCACCAA
AACCTCAACAGGGGCATCTCTGAGTTCATCGTGATGGCTGCAGACGCCGAGCCACTGGAGATCATTCTGCACCT
GCCGCTGCTGTGTGAAGACAAGAATGTGCCCTACGTGTTTGTGCGCTCCAAGCAGGCCCTGGGGAGAGCCTGTGG
GGTCTCCAGGCCTGTCATCGCCTGTTCTGTCAACCATCAAAGAAGGCTCGCAGCTGAAACAGCAGATCCAATCCAT
TCAGCAGTCCATTGAAAGGCTCTTAGTCTAAACCTGTGGCCTCTGCCACGTGCTCCCTGCCAGCTTCCCCCTGA
GGTTGTGTATCATATTATCTGTGTAGCATGTAGTATTTTTCAGCTACTCTCTATTGTTATAAAATGTAGTACTAA
ATCTGGTTTCTGGATTTTGTGTGTTTTTGTCTGTTTTACAGGGTTGCTATCCCCCTTCCTTTCTCCCTCCC
TCTGCCATCCTTCATCCTTTTATCTCCCTTTTGGAAACAAGTGTTCAGAGCAGACAGAAGCAGGGTGGTGGCAC
CGTTGAAAGGCAGAAAGAGCCAGGAGAAAGCTGATGGAGCCAGGACAGAGATCTGGTTCCAGCTTTCAGCCACTA
GCTTCCTGTTGTGTGCGGGGTGTGGTGGAAATTAAACAGCATTTCATTGTGTGTCCCTGTGCCTGGCACACAGAATC
ATTCTACGTGTTCAAGTGATCAAGGGGTTTCATTTGCTCTTGGGGGATTAGGTATCATTGGGGAGGAAGCATG
TGTTCTGTGAGGTTGTTCGGCTATGTCCAAGTGTGTTTTACTAATGTACCCCTGCTGTTTGCTTTTGGTAATGTG
ATGTTGATGTTCTCCCCCTACCCACAACCATGCCCTTGAGGGTAGCAGGGCAGCAGCATACCAAAGAGATGTGCT
GCAGGACTCCGGAGGCAGCCTGGGTGGGTGAGCCATGGGGCAGTTGACCTGGGTCTTGAAAGAGTCGGGAGTGAC
AAGCTCAGAGAGCATGAACTGATGCTGGCATGAAGGATTCCAGGAAGATCATGGAGACCTGGCTGGTAGCTGTAA
CAGAGATGGTGGAGTCCAAGGAAACAGCCTGTCTCTGGTGAATGGGACTTTCTTTGGTGGACACTTGGCACCAGC
TCTGAGAGCCCTTCCCCTGTGTCTGCCACCATGTGGGTGAGATGTACTCTCTGTACATGAGGAGAGTGCTAGT
TCATGTGTCTCCATTCTGTGAGCATCCTAATAAATCTGTTCCATTTTG

157/2682
FIGURE 147

MTEADVNP KAYPLAD AHLTKKLLDLVQQSCNYKQLRK GANEATKTLNRGISEFIVMAADAEPL EIIHLPLLCED
KNVPYVFVRSKQALGRACGVS RFPVIACSVTIKEGSQLKQOIQSIQQS IERLLV

158/2682
FIGURE 148

GCGGCGGCGGCAGCGGCGGCGACGGCGACATGGAGAGCGGGGCCTACGGCGCGGCCAAGGCGGGCGGCTCCTTCG
ACCTGCGGCGCTTCCTGACGCAGCCGCAGGTGGTGGCGCGCGCGTGTGCTTGGTCTTCGCCTTGATCGTGTCT
CCTGCATCTATGGTGAGGGCTACAGCAATGCCACGAGTCTAAGCAGATGTACTGCGTGTTC AACGCAACGAGG
ATGCCTGCCGCTATGGCAGTGCCATCGGGGTGCTGGCCTTCCTGGCCTCGGCCTTCTTCTTGGTGGTCGACGCGT
ATTTCCCCAGATCAGCAACGCCACTGACCGCAAGTACCTGGTCATTGGTGACCTGCTCTTCTCAGCTCTCTGGA
CCTTCCTGTGGTTTGTGGTTTCTGCTTCCTCACCAACCAGTGGGCAGTCACCAACCCGAAGGACGTGCTGGTGG
GGGCGGACTCTGTGAGGGCAGCCATCACCTTCAGCTTCTTTCCATCTTCTCCTGGGGTGTGCTGGCCTCCCTGG
CCTACCAGCGCTACAAGGCTGGCGTGGACGACTTCATCCAGAATTACGTTGACCCCACTCCGGACCCCAACTG
CCTACGCCTCCTACCCAGGTGCATCTGTGGACAAC TACCAACAGCCACCCTTCACCCAGAACGCGGAGACCACCG
AGGGCTACCAGCCGCCCCCTGTGTACTGAGCGGCGGTTAGCGTGGGAAGGGGGACAGAGAGGGCCCTCCCTCTG
CCCTGGACTTTCCCATGAGCCTCCTGGAAGTGCCAGCCCTCTCTTTACCTGTTCCATCCTGTGCAGCTGACAC
ACAGCTAAGGAGCCTCATAGCCTGGCGGGGGCTGGCAGAGCCACACCCCAAGTGCCTGTGCCAGAGGGCTTCAG
TCAGCCGCTCACTCCTCCAGGGCATTTTTAGGAAAGGGTTTTCAGCTAGTGTTTTCTCGCTTTTAATGACCTC
AGCCCCGCTGCAGTGGCTAGAAGCCAGCAGGTGCCCATGTGCTACTGACAAGTGCCTCAGCTTCCCCCGGGCC
GGGTCAGGCCGTGGGAGCCGCTATTATCTGCGTTCTCTGCCAAAGACTCGTGGGGGCCATCACACCTGCCCTGTG
CAGCGGAGCCGGACCAGGCTCTTGTGTCCTCACTCAGGTTTGCTTCCCTGTGCCACTGCTGTATGATCTGGGG
GCCACCACCCTGTGCCGGTGGCCTCTGGGCTGCCTCCCGTGGTGTGAGGGCGGGGCTGGTGTCTATGGCACTTCC
TCCTTGCTCCCACCCCTGGCAGCAGGGAAGGGCTTTGCCTGACAACACCCAGCTTTATGTAAATATTCTGCAGTT
GTTACTTAGGAAGCCTGGGGAGGGCAGGGGTGCCCCATGGCTCCCAGACTCTGTCTGTGCCGAGTGATTATAAA
ATCGTGGGGGAGATGCCCGCCTGGGATGCTGTTTGAGACGGAATAAATGTTTTCTCATT CAGTA

159/2682
FIGURE 149

MESGAYGAAKAGGSFDLRRFLTQPQVVARAVCLVFALIVFSCIYGEYGSNAHESKQMYCVFNRNEDACRYGSAIG
VLAFLASAFFLVVDAYFPQISNATDRKYLVIQDLEFSLWTFWLVGFCFLTNQWAVTNPKDVLVGADSVRAAIT
FSFFSIFSWGVLASLAYQRYKAGVDDFIQNYVDPTDPNTAYASYPGASVDNYQQPFFTQNAETTEGYQPPPVY

160/2682
FIGURE 150

GCCACACGGTCTTTGAGCTGAGTCGAGGTGGACCCCTTTGAACGCAGTCGCCCTACAGCCGCTGATTCCCCCGCA
TCGCCTCCCGTGGAAGCCCAGGCCGCTTCGCAGCTTTCTCCCTTTGTCTCATAACCATGTCCACCAACGAGAAT
GCTAATACACCAGCTGCCCCTTCACAGATTCAAGAACAAGGGAAAAGACAGTACAGAAATGAGGCGTCGCAGA
ATAGAGGTCAATGTGGAGCTGAGGAAAGCTAAGAAGGATGACCAGATGCTGAAGAGGAGAAATGTAAGCTCATT
CCTGATGATGCTACTTCTCCGCTGCAGGAAAACCGCAACAACCAGGGCACTGTAAATTGGTCTGTTGATGACATT
GTCAAAGGCATAAATAGCAGCAATGTGGAAATCAGCTCCAAGCTACTCAAGCTGCCAGGAACTACTTCCAGA
GAAAAACAGCCCCCATAGACAACATAATCCGGGCTGGTTTGATTCCGAAATTTGTGTCCTTCTTGGGCAGAACT
GATTGTAGTCCATTTCAGTTTGAATCTGCTTGGGCACTACTAACATTGCTTCTGGGACATCAGAACAAACCAAG
GCTGTGGTAGATGGAGGTGCCATCCCAGCATTCACTTCTGTTGGCATCTCCCCATGCTCACATCAGTGAACAA
GCTGTCTGGGCTCTAGGAAACATTGCAGGTGATGGCTCAGTGTTCGAGACTTGTTTATTAAGTACGGTGCAGTT
GACCCACTGTTGGCTCTCCTTGCACTTCTGATATGTCATCTTTAGCATGTGGCTACTTACGTAATCTTACCTGG
ACACTTTCTAATCTTTGCCGCAACAAGAATCCTGCACCCCCGATAGATGCTGTTGAGCAGATTCTTCTACCTTA
GTTCCGGCTCCTGCATCATGATGATCCAGAAGTGTTAGCAGATACCTGCTGGGCTATTTCTACCTTACTGATGGT
CCAAATGAACGAATTGGCATGGTGGTGAAAACAGGAGTTGTGCCCCAACTTGTAAGCTTCTAGGAGCTTCTGAA
TTGCCAATTGTGACTCCTGCCCTAAGAGCCATAGGGAATATTGTCACTGGTACAGATGAACAGACTCAGGTTGTG
ATTGATGCAGGAGCACTCGCCGCTTTTCCCAGCTGCTCACCAACCCCAAACTAACATTGAGAAGGAAGCTACG
TGGACAATGTCAAACATCACAGCCGGCCGCCAGGACCAGATACAGCAAGTTGTGAATCATGGATTAGTCCCATT
CTTGTCACTGTTCTCTCTAAGGCAGATTTTAAGACACAAAAGGAAGCTGTGTGGGCCGTGACCAACTATAACAGT
GGTGGAACAGTTGAACAGATTGTGTACCTTGTTCACTGTGGCATAATAGAACCGTTGATGAACCTCTTAACTGCA
AAAGATACCAAGATTATTCTGGTTATCCTGGATGCCATTTCAAATATCTTTCAGGCTGCTGAGAACTAGGTGAA
ACTGAGAACTTAGTATAATGATTGAAGAAATGTGGAGGCTTAGACAAAATTGAAGCTCTACAAAACCATGAAAAT
GAGTCTGTGTATAAGGCTTCGTTAAGCTTAATTGAGAAGTATTTCTCTGTAGAGGAAGAGGAAGATCAAAACGTT
GTACCAGAACTACCTCTGAAGGCTACACTTTCCAAGTTTCAGGATGGGGCTCCTGGGACCTTTAACTTTTAGATC
ATGTAGCTGAGACATAAATTTGTTGTGTACTACGTTTGGTATTTTGTCTTATTGTTTCTCTACTAAGAACTCTTT
CTTAAATGTGGTTTGTACTGTAGCACTTTTACACTGAACTATACTTGAACAGTTCCAAGTGTACATACATAC
TGTATGAAGCTTGTCTCTGACTAGGTTTCTAATTTCTATGTGGAATTTCTATCTTGCAGCATCCTGTAAATAA
ACATTCAAGTCCACCCTTAAAAAAA

161/2682
FIGURE 151

MSTNENANTPAARLHRFKNKGKDDSTEMRRRRRIEVNVELRKAKKDDQMLKRRNVSSFPDDATSPLQENRNNQGTVN
WSVDDIVKGINSSNVENQLQATQAARKLLSREKQPPIDNIIRAGLIPKFVSFLGRITDCSPIQFESAWALTNIASG
TSEQTKAVVDGGAIPAFISLLASPHAHISEQAVWALGNIAGDGSVFRDLVIKYGAVDPLALLAVPDMSSLACGY
LRNLTWTLNLNRKNPAPPIDAVEQILPTLVRLHDDPEVLADTCWAI SYLTDGPNERIGMVVKTGVVPQLVK
LLGASELP I VTPALRAIGNIVTGTDEQTQVVIDAGALAVFPSLLTNPKTNIQKEATWTMSNITAGRQDQIQQVVN
HGLVPFLVSVLSKADFKTQKEAVWAVTNYTSGGTVEQIVYLVHCGIIEPLMNLLTAKDTKIILVILDAISNIFQA
AEKLGETEKL SIMIEECGGLDKIEALQNHENESVYKASLSLIEKYFSVEEEDQNVVPETTSEGYTFQVQDGAPG
TFNF

162/2682
FIGURE 152

TGTCGGGGACGGTAACCGGGACCCGTGCTCTGCTCCTGTCGCCTTCGCCTCCTGAATCCCTAGCCATATGCGTGA
GTGCATCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGCCTGCTGGGAGCTCTACTGCCTGGAACA
CGGCATCCAGCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGACTCCTTCAACACCTTCTT
CAGTGAGACGGGCGCTGGCAAGCACGTGCCCCGGGCTGTGTTTGTAGACTTGAACCCACAGTCATTGATGAAGT
TCGCACTGGCACCTACCGCCAGCTCTTCCACCCTGAGCAGCTCATCACAGGCAAGGAAGATGCTGCCAATAACTA
TGCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTTGTGTTGGACCGAATTCGCAAGCTGGCTGACCA
GTGCACCCGTCITCAGGGCTTCTTGGTTTTCCACAGCTTGGTGGGGGAAGTGGTTCTGGGTTACCTCCCTGCT
CATGGAACGCCGTGTCAGTTGATTATGGCAAGAAATCCAAGCTGGAGTTCTCCATTTACCCGGCACCCAGGTTTC
CACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCCCTGGAGCACTCTGATTGTGCCTTCAT
GGTAGACAATGAGGCCATCTATGACATCTGTGCTAGAAACCTCGATATCGAGCGCCCAACCTACACTAACCTTAA
CCGCCTTATTAGCCAGATTGTGTCCTCCATCACTGCTTCCCTGAGATTTGATGGAGCCCTGAATGTTGACCTGAC
AGAATTCCAGACCAACCTGGTCCCCTACCCCGCATCCACTTCCCTCTGGCCACATATGCCCTGTCTCTCTGC
TGAGAAAGCCTACCATGAACAGCTTTCTGTAGCAGACATCACCAATGCTTGCTTTGAGCCAGCCAACCAGATGGT
GAAATGTGACCCTGGCCATGGTAAATACATGGCTTGCTGCCTGTTGTACCGTGGTGACGTGGTTCCCAAAGATGT
CAATGTGCCATTGGCCACCATCAAAACCAAGCGCACGATCCAGTTTGTGGATTGGTGCCCCACTGGCTTCAAGGT
TGGCATCAACTACCAGCCTCCCACTGTGGTGCCTGGTGGAGACCTGGCCAAGGTACAGAGAGCTGTGTGCATGCT
GAGCAACACCACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCCAAGCGTGC
CTTTGTTCACTGGTACGTGGGTGAGGGGATGGAGGAAGGCGAGTTTTAGAGGCCCGTGAAGATATGGCTGCCCT
TGAGAAGGATTATGAGGAGGTTGGTGTGGATTCTGTTGAAGGAGAGGGTGAGGAAGAAGGAGAGGAATACTAATT
ATCCATTCTTTTGGCCCTGCAGCATGTCTGCTCCAGAATTTAGCTTCAGCTTAAGTACAGATGTTAAAGC
TTTCTGGTTAGATTGTTTTCACTTGGTGATCATGTCTTTTCCATGTGTACCTGTAATATTTTCCATCATATCTC
AAAGTAAAGTCATTAACATCA

163/2682
FIGURE 153

MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKXVPRVAVFDLEPTVI
DEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKRLADQCTRLQGFLVFHSFGGGTGSGFT
SLLMERLSVDYGGKSKLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMDNEAIYDICRRNLDIERPTYT
NLNRLISQIVSSITASLRFDGALNVDLTEFQTNLVPYPRHFPLATYAPVISA EKAYHEQLSVADITNACFEPAN
QMVKCDPGHGKYMACCLLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTGFKVGINYQPPTVVPGGDLAKVQRAV
CMLSNTTAIAEAWARLDHKFDL MYAKRA FVHWYVGE GMEEGEFSEAREDMAALEKD YEEVGVD SVEGE GEEEGEE
Y

GACGACACAGGCATTCCCGCGCCCTCCAGCCCTCGCCGCCCTCGCCACCGCTCCCGCGCGCCGCTCCGGATG
CACACAGGATCCCTGCTGGGCACCAACAGCTCCACCAATGGGGCTGGCCTGGGGACTAGGCGCTCCTGTTCTCGATG
CATGTGTGTGGCACCAACCGCATTCCAGAGTCTGGCGGAGACAACAGCGTGTTTGACATCTTTGAATCACCAGGG
GCCGCCCGCAAGGGGTCTGGGCGCGGACTGTTGAAGGGCCCCGACCTTCCAGCCAGCTTTCCGCATCGAGGAT
GCCAACCTGATCCCCCTGTGCCTGATGACAAGTTCCAAGACCTGGTGGATGCTGTGCGGGCAGAAAAGGGTTTC
CTCCTTCTGGCATCCCTGAGGCAGATGAAGAAGACCCGGGGCAGCGTGTGACCCTGGAGCGGAAAGACCCTCT
GGCCAGGTCTTCAGCGTGGTGTCCAATGGCAAGGCGGGCACCCTGGACCTCAGCCTGACCGTCCAAGGAAAGCAG
CACGTGGTGTCTGTGGAAGAAGCTCTCCTGGCAACCGGCCAGTGGAAGAGCATCACCTGTTTGTGAGGAAGAG
AGGGCCAGCTGTACATCGACTGTGAAAAGATGGAGAATGCTGAGTTGGACGTCCCATCCAAAGCGTCTTCACC
AGAGACCTGGCCAGCATCGCCAGACTCCGCATCGCAAAGGGGGCGTCAATGACAATTTCCAGGGGGTGTGTCAG
AATGTGAGGTTTGTCTTTGGAACCAACACAGAAGACATCCTCAGGAACAAAGGCTGTCTCAGCTCTACCAGTGT
CTCCTCACCTTGACAACAACGTGGTGAATGGTTCCAGCCCTGCCATCCGCACTAACTACATTGGCCACAAGACA
AAGGACTTGCAAGCCATCTGCGGCATCTCCTGTGATGAGCTGTCCAGCATGGTCTCTGGAACCTCAGGGGCTGCGC
ACCATTGTGACCACGCTGCAGGACAGCATCCGCAAAGTGACTGAAGAGAACAAGAGTTGGC¹CAATGAGCTGAGG
CGCCTCCCTATGCTATCACACGGAGTTCAGTACAGAAATAACGAGGAATGGACTGTTGATAGCTGCACTGAG
TGCACTGTGCAAACTCAGTTACCATCTGCAAAAAGGTGTCTGCCCATCATGCCCTGTCTCAATGCCACAGTT
CCTGATGGAGAATGCTGTCTCGCTGTTGGCCAGCGACTCTGCGGACGATGGCTGGTCTCCATGGTCCGAGTGG
ACCTCCTGTTCTACGAGCTGTGGCAATGGAATTCAGCAGCGCGGCCGCTCTCGGATAGCCTCAACAACCGATGT
GAGGGCTCCTCGGTCCAGACACGGACCTGCCACATTAGGAGTGTGACAAAAGATTTAAACAGGATGGTGGCTGG
AGCCACTGGTCCCCGTGGTCACTTGTCTGTGACATGTGGTGTGATGATCAAGGATCCGGCTCTGCAAC
TCTCCAGCCCCCAGATGAATGGGAAACCTGTGAAGGCGAAGCGCGGGAGACCAAGCCTGCAAGAAAGACGCC
TGCCCCATCAATGGAGGCTGGGGTCTTGGTCAACATGGGACATCTGTCTGTACCTGTGGAGGAGGGGTACAG
AAACGTAGTCGTCTCTGCAACAACCCCGCACCCAGTTTGAGAGGCAAGGACTGCGTTGGTGTGATGTAACAGAAAAC
CAGATCTGCAACAAGCAGGACTGTCCAATTGATGGATGCCGTGTCCAATCCCTGCTTTGCCGGCGTGAAGTGTACT
AGCTACCTGTATGGCAGCTGGAAATGTGGTGTCTGTCCCCCTGGTTACAGTGGAAATGGCATCCAGTGCACAGAT
GTTGATGAGTGC²AAAGAAGTGCCTGATGCCGTGCTTCAACCACAATGGAGAGCACCGGTGTGAGAACACGGACCCC
GGCTACAACCTGCCTGCCCTGCCCCCAGCCTTACCGGCTCACAGCCCTTCGGCCAGGGTGTGGAACATGCCACG
GCCAACAACAGGTTGTGAAGCCCCGTAACCCCTGCACGGATGGGACCCACGACTGCAACAAGAACGCCAAGTGC
AACTACCTGGGCCACTATAGCGACCCCATGTACCGCTGCGAGTGAAGCCTGGCTACGCTGGCAATGGCATCATC
TGCGGGGAGGACACAGACCTGGATGGCTGGCCCAATGAGAACCTGGTGTGCGTGGCCAATGCGACTTACCCTGC
AAAAAGGATAATTGCCCAACCTTCCCAACTCAGGGCAGGAAGACTATGACAAGGATGGAATTGGTGTGCTGT
GATGATGACGATGACAATGATAAAATTCCAGATGACAGGGACAACCTGTCATTCCATTACAACCCAGCTCAGTAT
GACTATGACAGAGATGATGTGGGAGACCGCTGTGACAACTGTCCCTACAACCACAACCCAGATCAGGCAGACACA
GACAACAATGGGGAAGGAGACGCCCTGTGCTGCAGACATTGATGGAGACGGTATCCTCAATGAACGGGACAACCTGC
CAGTACGCTCTCAAAATGTGACCAGAGAGACACTGATATGGATGGGGTTGGAGATCAGTGTGACAATTGCCCTTG
GAACACAATCCGGATCAGTGGACTCTACTCAGACCGCATTGGAGATACCTGTGACAACAATCAGGATATTGAT
GAAGATGGCCACCAGAACAATCTGGACAACCTGTCCCTATGTGCCCAATGCCAACAGGCTGACCATGACAAAGAT
GGCAAGGGAGATGCCTGTGACCACGATGATGACAACGATGGCATGTCCTGATGACAAGGACAACTCGAGACTCGTG
CCCAATCCCGACCAGAAGGACTCTGACGGCGATGGTTCGAGGTGATGCCGTGCAAAAGATGATTTTGACCATGACAGT
GTGCCAGACATCGATGACATCTGTCTGAGAATGTTGACATCAGTGAGACCGGATTTCCGCCGATTCACAGATGATT
CCTCTGGACCCCAAAGGGACATCCCAAAATGACCCTAACTGGGTTGTACGCCATCAGGGTAAAGAACTCGTCCAG
ACTGTCAACTGTGATCCTGGACTCGCTGTAGGTTATGATGAGTTTAACTGCTGTGGACTTCAGTGGCACCTTCTTC
ATCAACACCGAAAGGGACGATGACTATGCTGGATTGTCTTTGGCTACCACTCCAGCAGCCGCTTTTATGTTGTG
ATGTGGAAGCAAGTCACCCAGTCTACTGGGACACCAACCCACGAGGGCTCAGGGATACTCGGGCCTTTCTGTG
AAAGTTGTAAACTCCACCACAGGGCCTGGCGAGCACCTGCGGAACGCCCTGTGGCACACAGGAAACACCCCTGGC
CAGGTGCGCACCCCTGTGGCATGACCCTCGTCACATAGGCTGGAAAGATTTACCGCCTACAGATGGCGTCTCAG
CACAGGCCAAAGACGGGTTTCATTAGAGTGGTGTGATGATGAAGGGAAGAAAATCATGGTGACTCAGGACCCATC
TATGATAAAACCTATGCTGGTGGTAGACTAGGGTTGTTTGTCTTCTCTCAAGAAATGGTGTCTTCTCTGACCT

165/2682
FIGURE 154B

AAATACGAATGTAGAGATCCCTTAATCATCAAATTGTTGATTGAAAGACTGATCATAAACCAATGCTGGTATTGCA
CCTTCTGGAACATATGGGCTTGAGAAAACCCCCAGGATCACTTCTCCTTGGCTTCCTTCTTTCTGTGCTTGCATC
AGTGTGGACTCCTAGAACGTGCGACCTGCCTCAAGAAAATGCAGTTTTCAAAAACAGACTCATCAGCATTACGCC
TCCAATGAATAAGACATCTTCCAAGCATATAAACAATTGCTTTGGTTTTCTTTTGAAAAAGCATCTACTTGCTTC
AGTTGGGAAGGTGCCATTCCACTCTGCCTTTGTACAGAGCAGGGTGCTATTGTGAGGCCATCTCTGAGCAGTG
GACTCAAAGCATTTTCAGGCATGTGAGAGAAGGGAGGACTCACTAGAATTAGCAAACAAAACCACCTGACATC
CTCCTTCAGGAACACGGGGAGCAGAGGCCAAAGCACTAAGGGGAGGGCGCATACCCGAGACGATTGTATGAAGAA
AATATGGAGGAACGTGTACATGTTTCGGTACTAAGTCATTTTCAGGGGATTGAAAGACTATTGCTGGATTTTCATGA
TGCTGACTGGCGTTAGCTGATTAACCCATGTAAATAGGCACCTTAAATAGAAGCAGGAAAGGGAGACAAAGACTGG
CTTCTGGACTTCCCTCCCTGATCCCCACCTTACTCATCACCTTGCACTGGCCAGAATTAGGGAATCAGAATCAA
CCAGTGTAAAGCAGTGGCTGGCTGCCATTGCCTGGTCACATTGAAATTGGTGGCTTCATTCTAGATGTAGCTTGTG
CAGATGTAGCAGGAAAAATAGGAAAACCTACCATCTCAGTGAGCACCAGCTGCCTCCCAAAGGAGGGGCAGCCGTG
CTTATATTTTTATGTTTACAATGGCACAAAATTATTATCAACCTAACTAAAACATTCTTTTTCTTTTTTCCGT
AATTACTAGGTAGTTTTCTAATTCTCTCTTTTGGAAAGTATGATTTTTTTTAAAGTCTTTACGATGTAAAATATTTA
TTTTTTACTTATTCTGGAAGATCTGGCTGAAGGATTATTTCATGGAACAGGAAGAAGCGTAAAGACTATCCATGTC
ATCTTTGTGAGAGTCTTCGTGACTGTAAGATTGTAAATACAGATTATTTATTAACCTCTGTTCTGCCTGGAAATT
TAGGCTTCATACGGAAGTGTTTGAGAGCAAGTAGTTGACATTTATCAGCAAATCTCTTGCAAGAACAGCACAAAG
GAAATCAGTCTAATAAGCTGCTCTGCCCTTGTGCTCAGAGTGGATGTTATGGGATTCTTTTTTCTCTGT
ATCTTTTCAAGTGGAATTAGTTGGTTATCCATTTGCAAATGTTTTAAATTGCAAAGAAAGCCATGAGGTCTTCAA
TACTGTTTTACCCCATCCCTTGTGCATATTTCCAGGGAGAAGGAAAGCATATACACTTTTTTCTTTTCATTTTTCC
AAAAGAGAAAAAATGACAAAAGGTGAAACTTACATACAAATATTACCTCATTTGTTGTGTGACTGAGTAAAGAA
TTTTTGATCAAGCGGAAAGAGTTTAAAGTGTCTAACAACTTAAAGCTACTGTAGTACCTAAAAAGTCAGTGTTG
TACATAGCATAAAACTCTGCAGAGAAGTATTCCCAATAAGGAAATAGCATTGAAATGTTAAATACAATTTCTGA
AAGTTATGTTTTTTTTCTATCATCTGGTATACCATTTGCTTTATTTTTATAAATTATTTCTCATTGCCATTGGAA
TAGAATATTCAGATTGTGTAGATATGCTATTTAAATAATTTATCAGGAAATACTGCCTGTAGAGTTAGTATTTCT
ATTTTTATATAATGTTTGCACACTGAATTGAAGAATTGTTGGTTTTTCTTTTTTTTGTTTTTTTTTTTTTTTT
TTTTTTTTGCTTTTGACCTCCCATTTTTTACTATTTGCCAATACCTTTTTCTAGGAATGTGCTTTTTTTTGTACA
CATTTTTATCCATTTTACATTCTAAAGCAGTGTAAAGTTGTATATTACTGTTTCTTATGTACAAGGAACAACAATA
AATCATATGGAAATTTATATT

166/2682
FIGURE 155

MGLAWGLGVLFMLHVCCTNRIPESGGDNSVFDIFELTGAARKGSGRRLVKGPDPSAPFRIEDANLIPPVPDDKF
QDLVDAVRAEKGFLLLASLRQMKKTRGILLALERKDHSGQVFSVVSNGKAGTLDLSLTVQCKQHVVSVVEALLAT
GQWKSITLQEDRAQLYIDCEKMENAELDVPIQSVFTRDLASIALRLIAKGGVNDNFQGVQLQNVRFVFGTTPED
ILRNKGCSSSTSVLLTLDNNVVGSSPAIRTNVYIGHKTKDLQAICGISCELSMVLELRGLRTIVTTLQDSIRK
VTEENKELANELRRPPLCYHNGVQYRNNEEWTVDSCTECHCQNSVTICKKVSCPIMPSCNATVPDGECCPRCWPS
DSADDGWSPWSEWTSCSTSCGNGIQQRGRSCDSLNNRCEGSSVQTRTCHIQECDKRFKQDGGWSHWSPWSSCSVT
CGDGVITRIRLCNSPSPQMNGKPCGEARETKACKKDACPINGGWGPWSPWDICSVTCGGGVQKRSRLCNPAPQ
FGGKDCVGDVTENQICNKQDCPIDGCLSNPCFAGVKCTSYPDGSWKCGACPPGYSGNGIQCTDVDECKEVPDACF
NHNGEHRCENTDPGYNCLPCPPRFTGSQPFQGVGHATANKQVCKPRNPCTDGTDCNKNACNYLGHYSDPMYR
CECKPGYAGNGIICGEDTDLDGWPENENLVCVANATYHCKKDNCPNLPNSGQEDYDKDGIGDACDDDDNDKIPDD
RDNCPFHYNPAQYDYDRDDVGDRCDNCPYNHNPDAQADTDNNGEGDACAADIDGDGILNERDNCQYVYNVDQRD
MDGVGDQCDNCPLEHNPDQLDSDSDRIGDTCDDNQDIDEDGHQNNLDNCPYVNPANQADHDKDGKGDACDHDDN
DGIPDDKDNCRVFNPDQKQSDGDRGDACKDDFDHDSVPDIDDICPENVDISETDFRREFQMIPLDPKGTSONDP
NWWVRHQGKELVQTVNCDPGLAVGYDEFNAVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQVTQSYWDT
NPTRAQGYSGLSVKVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGFIRVVM
YEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDP

168/2682
FIGURE 157

MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVGIDIFTGKKYEDICPS
THNMDVPNIKRNDLFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLGKEIEQKYDCGEEILITVLSAMTEEAATAIK
AMAK

169/2682
FIGURE 158

AGCGAGTCCTTCTTTTCTGACTGCAGCTCTTTTCATTTTGCCATCCTTCTCCAGCTCCATGATGGTTCTGCAGG
TTTCTGCGGCCCCCGGACAGTGGCTCTGACGGCGTTACTGATGGTGCTGCTCACATCTGTGGTCCAGGGCAGGG
CCACTCCAGAGAATTACGTGTACCAGGGACGGCAGGAATGCTACGCGTTTAATGGGACACAGCGCTTCTGGAGA
GATACATCTACAACCGGGAGGAGTACGCGCGCTTCGACAGCGACGTGGGGGAGTTCCGGGCGGTGACGGAGCTGG
GGCGGCTGCTGCGGAGTACTGGAACAGCCAGAAGGACATCCTGGAGGAGAAGCGGGCAGTGCCGGACAGGGTAT
GCAGACACAACCTACGAGCTGGACGAGGCGGTGACCCTGCAGCGCCGAGTCCAGCCTAAGGTGAACGTTTTCCCCCT
CCAAGAAGGGGCCCCCTGCAGCACCACAACCTGCTTGCTGCCACGTGACAGATTTCTACCCAGGCAGCATTCAAG
TCCGATGGTTCCCTGAATGGACAGGAGGAAACAGCTGGGGTCTGTGTCACCAACCTGATCCGTAATGGAGACTGGA
CCTTCCAGATCCTGGTGATGTGGAAATGACCCCCCAGCAGGGAGACGTCTACATCTGCCAAGTGGAGCACACCA
GCCTGGACAGTCTGTACCCGTGGAGTGGAAAGGCACAGTCTGATTCTGCCCAGAGTAAGACATTGACGGGAGCTG
GGGGCTTCGTGCTGGGGCTCATCATCTGTGGAGTGGGCATCTTCATGCACAGGAGGAGCAAGAAAGTTCAACGAG
GATCTGCATTAACAGGGTTCTTGACCTACCCGAAAAGACTAATGTGCCTTAGAACAAGCATTGTCTGTGTTTTGT
TAACACCTGGTTCCAGGACAGACCCTCAGCTTCCCAAGAGGATACTGCTGCCAAGAAGTTGCTCTGAAGTCAGTT
TCTATCGTTCTGCTCTTTGATTCAAAGCACTGTTTCTCTCACTGGGCCTCCAACCATGTTCCCTTCTTTAGCA
CCACAAATAATCAAAACCCAAACATAAGTGTGTTTTCTTTAAAAATATGCATCAAATCGTCTCTCATTACTTT
TCTCTGAGGGTTTTAGTAAACAGTAGGAGTTAATAAAGAAGTTTCAATTTTGGTTTACACGTAGGAAAGAAGAGAAG
CATCAAAGTGGAGATATGTTAACTATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATT
TCAGTGAGCTGCCCCCAAATCAAGTTTTAGTGCCCTCATCCATTTATGTCTCAGACCGCTATTCTTAACTATTCAA
TGGTGAGCAGACTGCAAATCTGCCTGATAGGACCCATATCCCACAGCACTAATTCAACATATATCTTACTGAGA
GCATGTTTTATCATTACCATTAAAGAAGTTAAATGAACATCAGAATTTAAATCATAAATATAATCTAATACACTT
T

170/2682
FIGURE 159

MMVLQVSAAPRTVALTALLMVLLTSVVQGRATPENYVYQGRQECYAFNGTQRFLERYIYNREEYARFDSQDVGEFR
AVTELGRPAAEYWNSQKDILEEKRAVPDRVCRHNYELDEAVTLQRRVQPKVNVSPSKKGPLQHHNLLVCHVTDFY
PGSIQVRWFLNGQEETAGVVSTNLIRNGDWTQILVMLEMTPQQGDVYICQVEHTSLDSPVTVEWKAQSDSAQSK
TLTGAGGFVLGLIICGVGIFMHRRSKKVQRGSA

171/2682
FIGURE 160

GGCACGAGGGGCGGCCGGTGAGGGGAAGCAAGTCTGGTCTCTGTGATTGAAGAAGTCGGCTCTGGGCTCCAGTG
CGGGAATCACACACATACCTCAGAATGCGGGTCTAAGTTGTAGATTTTATCAACACAAATTTCTGAGGTGGAA
GATGTAGTGATGGTGAATGTCAGATCCATTGCTGAAATGGGGGCTTATGTCAGCTTGCTGGAATACAACAACATT
GAAGGCATGATTCTTCTTAGTGAATTATCCAGAAGGCGTATCCGTTCTATCAACAACTCATCCGAATTGGCAGG
AATGAGTGTGTGGTTGTCATTAGGGTGGACAAAGAAAAGGATATATTGATTTGTCAAAAAGAAGAGTTTCTCCA
GAGGAAGCAATCAAATGTGAAGACAAATTCACAAATCCAAACTGTTTATAGCATTCTTCGTCATGTTGCTGAG
GTGTTAGAATACCAAGGATGAGCAGCTGGAAAGCCTATTCCAGAGGACTGCCTGGGTCTTTGATGACAAGTAC
AAGAGACCTGGATATGGTGCCTATGATGCATTTAAGCATGCAGTCTCAGACCCATCTATTTTGGATAGTTTAGAT
TTGAATGAAGATGAACGGGAAGTACTCATTAAATAATTAATAGGCGCTTGACCCACAGGCTGTCAAATTCGA
GCAGATATTGAAGTGGCTTGTATGGTTATGAAGGCATTGATGCTGTAAAAGAAGCCCTAAGAGCAGGTTTGAAT
TGTTCTACAGAAAACATGCCATTAAAGATTAATCTAATAGCTCCTCCTCGGTATGTAATGACTACGACAACCCTG
GAGAGAACAGAAGGCCTTTCTGTCTCAGTCAAGCTATGGCTGTTATCAAAGAGAAGATTGAGGAAAAGAGGGGT
GTGTTCAATGTTCAAATGGAGCCCAAAGTGGTACAGATACAGATGAGACTGAACCTGCGAGGCAGATGGAGAGG
CTTGAAAGAGAAAATGCCGAAGTGGATGGAGATGATGATGCAGAAGAAATGGAAGCCAAAGCTGAAGATTAACTT
TGTGGGAAACAGAGTCCAATTTAAGGAACACAGAGCAGCGCTTCTCGGTGTAATCTAGACTTGAAAGTTTTC
CAGTATTGAAAACCTCAAAGCTGAATATTTTTTATTTCTAAGTATTTAAATGTTCTAACAGATCAGAACATGAAA
TGCCCTCTTAATGTCAGCTGTTGTACACAGTAGCTCAACACTTTGAGCATTTTTAAAGGAGTGGCCTCATT
CCTAGAGACAAATCTTTAAGAATAGTTCTAAAATTGGCGTTGTGATTTCATTTCTGATGTCTCCAGATTGGCA
CCCCTTTCTAGTTCAATGCCTCACGAGATTTGCCAGGGGCATCCAAGGCAACAATCCCAATCTTTCTATATAAA
ATGTATTCAAGCAAACATCAAATAAAATTTCTGGGATATTAACTATAGGCTTCTTCCTTCTGTACCAGTTAAA
AGCATTTTAATACTAAGACCCTAATCTTTTATCTTTATTTTAGTCTTGATGTGGAAGTGTAGGAGCAGGTGAAT
AAAGGATCTCTATAACAGATCCTTTCAAAGAAGAGTTTATAGAAAATAAAATTTAACTTTAACCACAGTGAAG
TTGACCCTTAGCGGGACAAAGCCTTAAATGCATTGAAAGAATTAGATCGGTTCTGTGCCTTTTATCTATTTGAG
ATTGATGACAACCTGTGTGAGAGAATTTATCACACCAGTCCTTATTGGAATAATAAGCTACTTGCCCTTGAGTTT
ATAATTCAGGGTGGTAAAGTATGTTTTTAAATTTTAAAAGCAGCTGCATTTTTTATTTAGTTGGAATATCACC
AATTTTTTATTTTTTATTGCTATTAAATATCCACTAGATGCCACCTAGAGCTCCAGTTCCTTTATAACAAAACAGG
GATCTGTTTGAACACTTACTGTTGTTTTTTTTTTTTTACATGTTTCCATCATTCTGTCTTTAAGAACTAATTCG
TACATAATAAGTTTCATAGGTAACACATTATATTCTCTTATGATACTTGAGGTACCAGTTGTATTTAATTTTATT
CATTATCCCTAGATAGCTATTAAGATACTTAGATTAGACCTAACCCACCATAGTCAATCCAAGACTAGACTACTC
AATATTAAAGGGTCTGGAAAATAGAAGAGTGTGTTGGGCAGGTAGTTTGTACCATTTATGAAGGTTTGTTCCTT
GTTAAATTTAGCAGCCTGTACTAGCTTTTGAAATCCAGAAGTTTAACTTCCAGTGGCTGGTTTCTGAGAGAGTG
CCATGATTGCTAGCCAGCATTCCATATTGGGAATATGTAGAGGAGAACCTGGATGTACTTAAGAGTGGCATATAA
TTTTCACTTCTGTCTGTTGAGGCAAAAAAAAAACAAGTTTAGAAAGCTGGCAACATGAAGAATGCATTCAAATA
TAACAGGTGCTTCTTTGTTGTACGCAGAGGAATTTTTCTTTTGATTTTGTGTTTACTGAAATTTGTTATACTTCAA
AAGCCATAACTTGAAAATACTGGTGGCGTCGATGGTGAGTGATTTTTATCCCACGTGGGCCCTTTGCTCAGTTC
CATGGCAATTTTGTAATTTGACCCTAGCCAGAGAATAGATCAGTATTTCACTGATACCACGAGGAAAAGAACAAA
CAAACTTAAAAGTATTCATACCTTGCTAACCTAAAAGACAGCAGGGACAAGATACATATGAGGACAAGGTAT
ACACCCAGTTCTGAATAACTTGAAGAACAGGCTTGGCAAAGAAGTAAGTTTATCCAAATCTTGAATTTCTGCCAG
GCATGGTAGCTCATGCCTGTAAACCCTGGCACTTAAGGGGCCAAGGCAGGAGGATCACTTGAGGCCAGTGAGCTGT
GATCACTCCAGTGCCTCGAGCCTGGGTGACAGGGCAAGACCCTGTCTCAAAAAAAAAAAAAAAAAA

172/2682

FIGURE 161

MPGLSCRFYQHKFPEVEDVVMVNVRSIAEMGAYVSLLEYNNIEGMILLSELSRRRIRSINKLIRIGRNECVVVIR
VDKEKGYIDLKRRVSPEEAIKCEDKFTKSKTVYSILRHVAEVLEYTKDEQLES LFORTAWVFDDKYKRPGYGAY
DAFKHAVSDPSILDSLNLNEDEREVLINNINRRLTPQAVKIRADIEVACYGYEGIDAVKEALRAGLNCSTENMPI
KINLIAPPRYVMTTTLERTEGLSVLSQAMAVIKEKIEEKRGVFNVMPEPKVVTDTDETALARQMERLERENAEV
DGDDDAEEMEAKAED

173/2682
FIGURE 162

AGGTCCGGCTTACCGTCGTTTACGACAGTGTGTCAGGATCGCGGGCTTGCTTTCGGTAGCGTGGGCTGACGCCTCG
CTCAATTTCTCACAGGGCTGCGCAGGTTTCCCCCGTCTGCGAATGGACCACTGGAGGGGTTCAAAGGTTTCGCGTC
CCAGTACGGGAATGAGCCTCTTTGATCTCTTCCGGGGCTTTTTCGGCTTTCCTGGACCTCGGAGCCACAGAGATC
CCTTTTTTGGAGGGATGACTCGAGATGAAGATGATGATGAGGAAGAAGAAGAAGAAGGGGGCTCATGGGGCCGTG
GGAACCCAAGGTTCCATAGTCCTCAGCACCCCCCTGAGGAATTTGGCTTCGGCTTCAGCTTCAGCCAGGAGGAG
GGATACGTTTCCACGATAACTTCGGCTTTGATGACCTAGTACGAGATTTCAATAGCATCTTCAGCGATATGGGGG
CCTGGACCTTGCCCTCCCATCCTCCTGAACCTTCAGGTCCTGAGTCAGAGACACCTGGTGAGAGACTACGGGAGG
GACAGACACTTCGGGACTCAATGCTTAAGTATCCAGATAGTCACCAGCCCAGGATCTTTGGGGGGGTCTTGGAGA
GTGATGCAAGAAGTGAATCCCCCAACCAGCACCAGACTGGGGCTCCCAGAGGCCATTTTCATAGGTTTGATGATG
TATGGCCTATGGACCCCCATCCTAGAACCCAGAGAGGACAAATGATCTTGATTCCCAGGTTTCCCAGGAGGGTCTTG
GCCCCGTTCTACAGCCCCAGCCCAAATCCTATTTCAAGAGCATCTCTGTGACCAAGATCACTAAACCAGATGGGA
TAGTGGAGGAGCGCCGGACTGTGGTGGACAGTGAGGGCCGGACAGAGACTACAGTAACCCGACACGAAGCAGATA
GCAGTCCTAGGGGTGATCCAGAATCACCAAGACCTCCAGCCCTGGATGATGCCTTTTCCATCCTGGACTTATTC
TGGGACGTTGGTTCCGGTCCCGGTAGCCTTGTTAACCCTCAGAGGCCTTCAAGTCCTTTCCACCTCTCACCCATT
GCCCACCATTAAATAAGCTTAGCTTCTCTTGCCACCTCAGGGGCTTGATATGTGGAATAGTGAAGTGGGGCCATG
TCAGTTTGTCACTCACCCAAACTGACCAATAAAACCTTTATTTATGCTAAAAAAAAAAAAAAAAAAAAA

174/2682
FIGURE 163

MSLFDLFRGFFGFFGPRSHRDPFFGGMTRDEDDDEEEEEEGGSWGRGNPRFHSPQHPPEEFGFGFSFSPGGGIRF
HDNFGFDDLVRDFNSIFSMDGAWTLPSHPPELPGPESETPGERLREGQTLRDSMLKYPDSHQPRIFGGVLES DAR
SESPQAPDWGSQRPFHRFDDVWPMDPHPTREDNDLDSQVSQEG LGPVLQPQPKSYFKSISVTKITKPDGIVEE
RRTVV DSEGR TETT VTRHEADSSPRGDPESPRPPALDDAFSILD LFLGRWFRSR

[illegible]

176/2682

FIGURE 165

MERIPSAQPPFACLPKAPGLEHGDLPGMYPAHMYQVYKSRRGIKRSSEDSKETYKLPHRLIEKKRRDRINECIAQL
KDLLPEHLKLTTLGHLEKAVVLELTCLKHVKALTNLIDQQQKIIALQSGLQAGELSGRNVETGQEMFCSGFQTCA
REVLQYLAKHENTRDLKSSQLVTHLHRVVSELLQGGTSRKPSDPAPKVMDFKPKSSPAKGSEGPGKNCVPVIQR
TFAHSSGEQSGSDTDTDSGYGGESEKGDLRSEQPCFKSDHGRRFTMGERIGAIIKQEESEPPTKKNRMQLSDDEGH
FTSSDLISSPFLGPHPHQPPFCLPFYLIPPSATAYLPMLEKCWYPTSVPVLYPGLNASAAALSSFMNPDKISAPL
LMPQRLPSPLPAHPSVDSSVLLQALKPIPLNLETKD

[illegible]

178/2682

FIGURE 166B

CTTCAGGTGTTTTCAAGCACAACCCACCACAACAAGCAAGTGCATTTTCAGTCGTTGIGCTTTTTTGTGTTTGTGC
TAACGTCTTACTAATTTAAAGATGCTGTGCGGCACCATGTTTATTTATTTCCAGTGGTCATGCTCAGCCTTGCTGC
TCTGCGTGGCGCAGGTGCCATGCCTGCTCCCTGTCTGTGTCCCAGCCACGCAGGGCCATCCACTGTGACGTCGGC
CGACCAGGCTGGACACCCTCTGCCGAGTAATGACGTGTGTGGCTGGGACCTTCTTTATTTCTGTGTTAATGGCTAA
CCTGTTACACTGGGCTGGGTTGGGTAGGGTGTCTGGCTTTTTTGTGGGGTTTTTATTTTAAAGAAACACTCAA
TCATCCTAG

179/2682
FIGURE 167

MINPYRNLPLAIIISLP IVTLVYVLTNLAYFTTLSTEQMLSSEAVAVDFGNYHLGVMSWIIPVFVGLSCFGSVNG
SLFTSSRLFFVGSREGHLPSILSMIHPQLLTPVPSLVFTCVMTLLYAFSKDIFSVINFFSFFNWLCVALAIIIGMI
WLRHRKPELERPIKVNALP VFFILACFLIAVSFWKTPVECGIGFTIILSGLPVYFFGVWKNKPKWLLQGIFS
TTVLCQKLMQVVPQET

180/2682
FIGURE 168

TGAACTGAGCGGCCCTGAGCTGACAGATACACTGCGCAGTGGAAACGGCGAGCGAGCCGACGGGCGAGTGAGGGG
CGCACATGATCACCTCGGCCGCTGGAATTATTTCTCTTCTGGATGAAGATGAACCACAGCTTAAGGAATTTGCAC
TACACAAATTGAATGCAGTTGTTAATGACTTCTGGGCAGAAATTTCCGAGTCCGTAGACAAAATAGAGGTTTTAT
ACGAAGATGAAGGTTTCCGGAGTCGGCAGTTTGCAGCCTTAGTGGCATCTAAAGTATTTTATCACCTGGGGGCTT
TTGAGGAGTCTCTGAATTATGCTCTTGGAGCAAGGGACCTCTTCAATGTCAATGATAACTCTGAATATGTGGAAA
CTATTATAGCAAAATGCATTGATCACTACACCAACAATGTGTGGAAAATGCAGATTTCCTGAAGGAGAAAAAA
AACCAATTGACCAGAGATTGGAAGGCATCGTAAATAAAATGTTCCAGCGATGTCTAGATGATCACAAGTATAAAC
AGGCTATTGGCATTGCTCTGGAGACACGAAGACTGGACGTCTTTGAAAAGACCATACTGGAGTCAATGATGTCC
CAGGAATGTTAGCTTATAGCCTTAAGCTCTGCATGTCTTTAATGCAGAATAAACAGTTTCGGAATAAAGTACTAA
GAGTTCTAGTTAAATCTACATGAACTTGGAGAAACCTGATTTTCATCAATGTTTGTCTAGTCTTAATTTCTTAG
ATGATCCTCAGGCTGTGAGTGATATCTTAGAGAACTGGTAAAGGAAGACAACCTCCTGATGGCATATCAGATTT
GTTTTGATTTGTATGAAAGTGCTAGCCAGCAGTTTTTGTCTATCTGTAATCCAGAATCTTGAAGTGTGGACCC
CTATTGCTTCTGTGCTGGATCCACTAATACGGGTACTGTTCCGGGATCAGAGAAAGACAGTGACTCGATGGAAA
CAGAAGAAAAGACAAGCAGTGCATTTGTAGGAAAGACACCAGAAGCCAGTCCAGAGCCTAAGGACCAGACTTTGA
AAATGATTAATAATTTAAGTGGTGAAATGGCTATTGAGTTACATCTGCAGTTCTTAATACGAAACAATAACAG
ACCTCATGATTCTAAAAACACAAAGGATGCAGTACGGAATTCTGTATGTCATACTGCAACCGTTATAGCAAACT
CTTTTATGCACTGTGGGACAACCAGTGACCAGTTTTCTTAGAGATAATTTGGAATGGTTAGCCAGAGCCACTAACT
GGGCAAAATTTACTGCTACAGCCAGTTTGGGTGTAATTCATAAGGGTCAAGGAAAGAGCATTACAGTTAATGG
CAACATACCTTCCCAAGGATACTTCTCCAGGATCAGCCTATCAGGAAGGTGGAGGTCTCTATGCACTAGGTCTTA
TTCATGCCAATCATGGTGGTGATATAATTGACTATCTGCTTAATCAGCTTAAGAACGCCAGCAATGATATCGTTA
GACACGGTGGCAGTCTGGGCCCTTGGTTTGGCAGCCATGGGAAGTGCACGTCAAGATGTTTATGATTTGCTAAAAA
CAAACCTTTATCAGGATGATGCAGTAACAGGGGAAGCAGCTGGCCTGGCCCTAGGTTTGGTTATGTTGGGCTCTA
AAAGTGTCTCAGGCTATTGAGGACATGGTTGGTTATGCACAAGAACTCAACATGAGAAGATTCTGCGTGGTCTTG
CAGTTGGCATAGCTTTAGTAATGTATGGGAGGATGGAAGAGGCTGATGCTCTCATTGAATCTCTGTCTGTGACA
AGGACCCAATTCTTCGAAGGTCTGGAATGTATACTGTAGCCATGGCTTATTGTGGCTCTGGTAACAACAAAGCAA
TTCGACGCTGCTACATGTGGCTGTAAGTGATGTGAATGATGATGTCAGGAGTGCAGCAGTAGAATCACTTGGGT
TCATTCTATTGAGAACCCCTGAACAGTGCCCAAGTGTTGTCTCTTTGTTGTGAGAGATTACAACCCCTCATGTGC
GCTACGGAGCTGCAATGGCCTTGGGGATATGCTGTGCTGGTACAGGAAACAAGGAAGCCATTAAATTTGCTAGAAC
CAATGACAAACGACCCCGTGAACACGTGAGGCAAGGGGCACTCATAGCTTCAGCTCTCATCATGATCCAGCAGA
CTGAAATCACTTGTCCAAAGGTGAATCAGTTGAGACAGCTGTATTCCAAAGTCATCAATGATAAGCATGATGATG
TCATGGCCAGTTTGGCGCTATTCTGGCCAGGGCATACTGGATGCAGGTGGTCATAATGTCACAATCTCCTTGC
AGTCCAGGACTGGGCATACTCATATGCCTTCTGTGGTTGGCGTCTTGTATTTACCCAGTTTTGGTTCTGGTTTC
CTCTTTCACACTTCTGTCTATTGGCTTATACCCCTACCTGTGTCTATTGGCCTTAACAAGGACTTAAAGATGCCGA
AAGTTCAGTATAAATCGAACTGTAAACCATCCACATTTGCATATCCTGCCCTCTGGAAGTACCAAAAGAAAAAG
AAAAGGAAAAGGTTTCTACTGCTGTATTATCTATAACTGCCAAGGCTAAAAAGAAGGAAAAAGAAAAGGAAAAA
AGGAGGAGGAGAAAAATGGAAGTGGATGAGGCAGAGAAAAAGGAGGAAAAAGAGAAGAAAAAGAACCTGAGCCAA
ACTTCCAGTTATTGGATAACCCAGCCCGAGTTATGCCTGCCAGCTTAAGGTCCTAACCATGCCGGAGACCTGTA
GATACCAGCCTTTCAAACCACTCTCTATTGGAGGCATCATCTTGAAGGATACCAGTGAAGACATTGAGGAGC
TGGTGGAACCTGTGGCAGCACATGGCCCAAAATCGAGGAGGAGGAACAAGAGCCAGAACCCCAAGAACCTTTG
AGTATATTGATGATTAAAGGACCAGAGGATCTCACTTGCTTATCTGAAGAAGATTGTCCAGGCTCATATTGGGAAT
GCTTATGAGGAAATTCATGCCGAGACCTGCTATTCAATGCATGTATCGTTGCCTCTGCACTGACCTGAAGAACCC
TGTCTCCAAGTCTTTGGTTGAAGAGAAGATATGACTGTTGAGTGTGCTCTTTCACAGAAGTGGTTTTCAAAT
AAATATAAGATCTCCAGATGGACAAG

181/2682
FIGURE 169

MITSAAGIISLLDEDEPQLKEFALHKLNAVVNDFWAEISESVDKIEVLYEDEGFRSRQFAALVASKVFYHLGAFE
ESLNYALGARDLFNVNDNSEYVETIIAKCIDHYTKQCVENADLPEGEKKPIDQRLEGIVNKMFORCLDDHKYKQA
IGIALETRRLDVFEKTILESNDVPGMLAYSLKLCMSLMONKQFRNKVLRVLVKIYMNLEKPDFINVCQCLIFLDD
PQAVSDILEKLVKEDNLLMAYQICFDLYESASQQFLSSVIONLRTVGTPIASVPGSTNTGTVPGSEKDSDSMETE
EKTSSAFVGKTPEASPEPKDQTLKMIKILSGEMAIELHLQFLIRNNNTDLMILKNTKDAVRNSVCHTATVIANSF
MHC GTTSDQFLRDNLEW LARATN WAKFTATASLGVIHKGHEKEALQLMATYLPKDTSPGSAYQEGGGLYALGLIH
ANHGGDIIDYLLNQLKNASNDIVRHGGSGLGLAAMGTARQDVYDLLKTNLYQDDAVTGEAAGLALGLVMLGSKN
AQAIEDMVGYAQETQHEKILRGLAVGIALVMYGRMEEADALIESLCRDKDPILRRSGMYTVAMAYCGSGNNKAIR
RLLHVAVSDVNDDVRSAAVESLGFILFRTPEQCPSVVSLLSESYNPHVRYGAAMALGICCA GTGNKEAINLLEPM
TNDPVNYVRQGALIASALIMIQQTEITCPKVNQFRQLYSKVINDKHDDVMAKFGAILAQGILDAGGHNV TISLQS
RTGHTHMP SVVGVLVFTQFWFWFPLSHFLSLAYTPTCVIGLNKDLKMPKVQYKSNCKPSTFAYPAPLEV PKEKEK
EKVSTAVLSITAKAKKKEKEKEKEEKEKMEVDEAEKKEEKEKKKEPEPNFQLLDNPARVMPAQLKVLTPETCRY
QPFKPLSIGGIIILKDTSE DIEELVEPVA AHGPKIEEEEQEPEPPEPFEYIDD

182/2682
FIGURE 170A

TAGAATACTTGGGTGACATCTGCCTGAGAGATCTCCAAGAATTACAGAAGACAAAAATACTAATGCATTTGAGAA
AGCGGTAGTTTTGGGGGGAGGGGAAAAAGCAACTGCTTTCCTGATCTGCAACTTGGCTGGATGCTAAGATGTC
GTGGACATGAATAGCCAGGGGTCTGACAGCAATGAAGAGGACTATGACCCAAATTGTGAGGAAGAGGAAGAGAA
GAAGAAGACGACCCTGGGGACATAGAGGACTATTACGTGGGAGTAGCCAGCGATGTGGAGCAGCAGGGGGCTGAT
GCCTTTGATCCCAGGAGTACCAGTTCACCTTGCTTGACCTACAAGGAATCTGAGGGTGCCTCAATGAGCACATG
ACCAGCTTAGCTTCTGTCTAAAGGTATCTCATTCACTTGCTAAACTTATATTAGTTAATTTCCACTGGCAAGTT
TCAGAGATATTGGACAGATACAAGTCCAATTCTGCTCAACTGCTTGTGAGGCTCGAGTTCAGCCTAATCCATCA
AAACATGTTCCCACATCCCATCCCCCTACCACTGTGTCAGTGTGTATGCAGTTTGTGCGAAAGGAAAAACCTACTC
TCTCTGGCCTGTGTCAGCACCAGTTTTGCGCAGCTGCTGGGAGCAGCACTGCTCAGTTCTCGTCAAGGACGGCTG
GGCGTGGGAGTCTCTTGATGGCTCAGGACTGTCCACTCCGTACACCAGAGGACTTTGTGTTTCCACTTGCTTCCC
AATGAAGAATTGAGAGAGAAATACAGGCGCTACCTCTTCAGGAGTATGTGGAGAGTATTACCAGCTCCAGCTG
TGCCCTGGTGCAGACTGCCCCATGGTTATTCGGGTACAGGAGCCTAGAGCTCGCCGAGTACCATGCAATCGGTGC
AACGAGGTCTTCTGTTTCAAGTGTGTCAGATGTATCAGCACCACAGACTGTGCCACAATCCGGAATGGCTC
ACGAAGTGTGCAGACGACTCTGAAACAGCCAATACATTAGTGTCTCACAATAAGACTGTCCCAAGTGCACATC
TGCATTGAGAAGAATGGAGGCTGCAATCAGATGCAATGCTCCAATGTAAACAGGACTTCTGCTGGATGTGTCTA
GGAGATTGGAAGACTCATGGCAGTGAATACTATGAGTGCAGTGTGTTACAAGGAGAATCCTGACATCGTGAACCAG
AGCCAACAAGCCAGGCGAGGGAAGCCCTCAAGAAGTACTTATTCTACTTTGAGAGGTGGGAAAAACCACAATAAA
AGCTTGCAGCTAGAGGCACAGACATACCAGCGGATTACAGAGAAGATTACAGGAGAGGGTCATGAACAATCTGGGG
ACATGGATCGACTGGCAGTACCTACAGAATGTGCCAAGCTTGTGCCAAGTGTGATAACCCCTGCAATACACC
TACCCATATGCATATTACATGGAGTCCGGACCCAGGAAGAAGCTGTTTGAATACCAGCAGGCTCAGCTGGAGGCT
GAGATCGAAAACCTCTCATGGAAAGTGGAGCGTCAGACAGCTATGACAGAGGGGACTTGGAGAACCAGATGCAT
ATAGCGGAGCAGCGGAGGAGAACCCCTGCTGAAAGATTTCCATGACACCTAAGTTGGGATGTGGATGTGCCGGGGT
GAGGAAGATGTGGCTGCAAGGTCTCCCGCTGCCATACTGCATGCTGCAGGCTCTGCCCTTTCATGACCCAGGCA
ACAGCCAGGGCCCCACTCCTGAGAGACACTGGCAACACCTCTTAGTTGATTTCTGTTTTCTTCTTTTCACTTT
TTGTTTTCTACAGGGGTAGAGGCCATGTTGAACCTGGCCTCTTTTTCAGGACTTTTTATTTCCTTGGATGGTTGTG
GGAGGGAGGGGAAAGTGTTTTTCTGAATGGCTATTAATAGTATTAGATCATTACAATTATGTAACCTTTCAAAGGTT
GTACAATTATACAAAAAAGGCAACTATAGGATAACACAGAGCCCTTTTGAATAAATTTGGCAT
TGGAGTGTTTTTACCTCTAGCTGTTTTACTTAGAATGTAACATATGCTGCCTACCCACCTCAAAATGTCTGTACT
GCAAGAGGGCCCTGGGCCTCTGCTTTCCATATTACGTTTGGCCAGAGTTGTAGTCCCAAAGAAGAGCATGGGTG
GCAGATGGTAGGGAATTGAACCTGGCCTGTGCAATGGGCATGGAGCACAAGGGGTACAGCATGCCTCCTGCCTTA
CCGTGGCAGTACGAGACAGTCCAGAACATGGTCTTCTTGCCACGGGGTGTGTTGTCTCTGGTGGTGTGCATG
TCTGTGGCTCACCTTTATTCTTGAACTGAGGTTTACCTGGATCTGGCTACTGAGGCTAGAGCCACAGCAGAAT
GGGGTTGGGCCTGTGGCCCCAACTAGGGGGTGTGGGTTTCATCAGTGTGCTTTTGTCTCCTAAAGATAGG
GATCTACTTTTGAAGGGAATTGTTCCCTCCCAATAAATTTGCTTTACCTTGGTCTTTCTTTTGTGCCAGTATTC
AAGTGGTATAGCTCTGAGCAGGGTCACATTTGGCCAAACCTGACACTGTCTTGCTGCATTTCTCTTTGGCAAACA
TCAGGGTCAGAATTCAGGATAGCCCTTCTAGGGCACTGGACTTTCTGGCATGGGGGCTGTGTTTGACAAGTTA
TTTTCATGTTACCTGGAGAGTGTCCAGAGGCTGCTCTGAGGCTGAGGTGTGTTCCCCCTTGCTGGTTCAGCTG
TCAGAGGGATACCATCCTAGGGTCTGGGAATCCAAGGCCACGAGACTCCTTGGTTTGTGGTCCGAGATCCTGTAC
TAAGGAGGGTCTGGCCAGAGGAACAGACCAGCTTTTGCACAATGAAGCGCAAGGGAACAAGTGGTTTGGCTGGT
TCCTACCTGTCTGAACTGGTCTGTGGGCCATTGAAAAGTTAGATCTGTGATCTCTGGGGTTTTTGTGGCTTT
GTTCAATGCTTCCACTCTAGGGCAGGCAGAGCAGTCTATACTCTCCCAAGCCTGCTTGACCTCCAAGTAGAGCTG
ATACAGAGATCTGTGAATATTGTGATAGAAATCTTTGGTATTATACATTTACAGCTGCAAGTCAGCAATTTCCC
AGGTACCATGTAAGCTATAAACAGTCATTCTTAAAGACAGAGGATAGCTGTGACTCATGGGATCATGAGGTCCA
TGGCTGGTTGCAGGTTCCCTTTTTCTTCTCCTCAGGTTTTGTCTCTTCTGTGTTGTCCCCAGCAAGGGAGAGACT
GTGGGGTGGATTGGGAGAACAGATTAGGAGTATAGCAATGAACCCAGAATGGAACAGTGGGGAGCTAACTGTGA
ATGAGGAGAGTACCTGCTGCAGGACCTGGAGGTGAGGTGTGAATGCTGTATTGGCACAGGGAATAAATATCCTGG
CGTCTGGAGCCTTACCTCTCCGTCAAGTCTTCTGTGATACTGCCATGGCACAGGATCTGAGTTGCAGCTCTG
CACCTAAATCACACCTGGGCATTGTCTGGGCTGCAGGGCTGCCAGGTTCTGTACTTGTGTCCAGCTGTGGCCC

183/2682

FIGURE 170B

TGGATGCTGGAGCTGGAGGGTTTTCTGTGCTCAGACTGTAGCCTGTAGCTCTTGGCCTGIGTAGAGCCCCCTCCT
GTGCCCTCAGTGGCTGTCGTTTGTTAACATCATCAGGAAGATGGGAAAGGTCAGGCAGAATTTTTCTGCCCTACA
AAGGGTGGAAGAGAAAGGACACAGTATTTTCATGAATTTACCATATATCTTTGTTTTCTTCAACGAAAAAGTTA
ATTGAGGCAATGTCATCTGCTCAAAGTTGAGTGGTTATTACAATAAACTGTAAGTTTCTGATTAT

184/2682
FIGURE 171

MSVDMNSQGSDSNEEDYDPNCEEEEEEEEDDPGDIEDYYVGVASDVEQQGADAFDPEEYQFTCLTYKESEGALNE
HMTSLASVLKVSHSVAKLILVNFHWQVSEILDYKSNQAQLLVEARVQPNPSKHVPTSHPPHCAVCMQFVRKEN
LLSLACQHQFCRSCWEQHCSVLVKDGVGVGVSCMAQDCPLRTPEDFVFPLLPNEELREKYRRYLFRDYVESHYQL
QLCPGADCPMVIRVQEPRARRVQCNRCNEVFCFKCRQMYHAPTDCATIRKWLTKCADDSETANYISAHTKDCPKC
NICIEKNGGCNHMQCSKCKHDFCWMCLGDWKTHGSEYYECSRYKENPDIVNQSQAQAREALKKYLFFERWENH
NKSLQLEAQTYQRIHEKIQERVMNNLGTWIDWQYLQNAAKLLAKCRYTLQYTPYAYMESGPRKKLFYQQAQL
EAEIENLSWKVERADSYDRGDLENQMHIAEQRRRTLLKDFHDT

185/2682
FIGURE 172

TAGCTAGGCAGGAAGTCGGCGCGGGCGGGCGGACAGTATCTGTGGGTACCCGGAGCACGGAGATCTCGCCGGCT
TTACGTTACCTCGGTGTCTGCAGCACCTCCGCTTCTCTCCTAGGCGACGAGACCCAGTGGCTAGAAGTTCAC
CATGTCTATTCTCAAGATCCATGCCAGGGAGATCTTTGACTCTCGCGGAATCCCACTGTTGAGGTTGATCTCTT
CACCTCAAAAGGTCTCTTCAGAGCTGCTGTGCCAGTGGTGCTTCAACTGGTATCTATGAGGCCCTAGAGCTCCG
GGACAATGATAAGACTCGCTATATGGGGAAGGGTGTCTCAAAGGCTGTTGAGCACATCAATAAACTATTGCGCC
TGCCCTGGTTAGCAAGAACTGAACGTACAGAACAGAGAAGATTGACAACTGATGATCGAGATGGATGGAAC
AGAAAATAAATCTAAGTTTGGTGCGAACGCCATTCTGGGGGTGTCCCTTGCCGTCTGCAAAGCTGGTGCCGTGA
GAAGGGGTCCCCCTGTACCGCCACATCGCTGACTTGGCTGGCAACTCTGAAGTCATCCTGCCAGTCCCGGCGTT
CAATGTCATCAATGGCGGTTCTCATGCTGGCAACAAGCTGGCCATGCAGGAGTTCATGATCCTCCAGTCGGTG
AGCAAACCTTCAGGAAGCCATGCGCATTGGAGCAGAGGTTTACCACAACCTGAAGAATGTCATCAAGGAGAAATA
TGGGAAAGATGCCACCAATGTGGGGGATGAAGGCGGGTTTGCTCCCAACATCCTGGAGAATAAAGAAGGCCTGGA
GCTGCTGAAGACTGCTATTGGGAAAGCTGGCTACACTGATAAGGTGGTCATCGGCATGGACGTAGCGGCCTCCGA
GTTCTTCAGGTCTGGGAAGTATGACCTGGACTTCAAGTCTCCCGATGACCCAGCAGGTACATCTCGCCTGACCA
GCTGGCTGACCTGTACAAGTCCTTCAAGGACTACCCAGTGGTGTCTATCGAAGATCCCTTTGACCAGGATGA
CTGGGGAGCTTGGCAGAAGTTCACAGCCAGTGCAGGAATCCAGGTAGTGGGGGATGATCTCACAGTGACCAACCC
AAAGAGGATCGCCAAGGCCGTGAACGAGAAGTCTGCAACTGCCTCCTGCTCAAAGTCAACCAGATTGGCTCCGT
GACCGAGTCTCTTCAGGCGTGCAAGCTGGCCCAGGCCAATGGTTGGGGCGTCATGGTGTCTCATCGTTCCGGGGGA
GACTGAAGATACCTTCATCGCTGACCTGGTTGTGGGGCTGTGCACTGGGCAGATCAAGACTGGTGCCCTTGCCG
ATCTGAGCGCTTGGCCAAGTACAACCAGCTCCTCAGAATTGAAGAGGAGCTGGGCAGCAAGGCTAAGTTTGCCGG
CAGGAACCTTCAGAAACCCCTTGGCCAAGTAAAGCTGTGGGCAGGCAAGCCCTTCGGTCACCTGTTGGCTACACAGA
CCCCTCCCCTCGTGTACGCTCAGGCAGCTCGAGGCCCCCGACCAACACTTGCAGGGGTCCCTGCTAGTTAGCGCC
CCACCGCCGTGGAGTTCGTACCGCTTCTTAGAACTTCTACAGAAGCCAAGCTCCCTGGAGCCCTGTTGGCAGCT
CTAGCTTTGCAGTCGTGTAATTGGCCCAAGTCATTGTTTTCTCGCCTCACTTTCCACCAAGTGTCTAGAGTCAT
GTGAGCCTCGTGTCTCTCCGGGGTGGCCACAGGCTAGATCCCGGTGGTTTTTGTGCTCAAATAAAAAGCCTCA
GTGACCCATGAG

186/2682

FIGURE 173

MSILKIHAREIFDSRGNPTVEVDLFTSKGLFRAAVPSGASTGIYEALERDNDKTRYMGKGVSKAVEHINKTIAP
ALVSKKLVNTEQEKIDKLMIEMDGTENKSKFGANAILGVSLAVCKAGAVEKGVPLYRHIADLAGNSEVILPVPAF
NVIINGGSHAGNKLAMQEFMILPVGAANFREAMRIGAEVYHNLKNVIKEKYGKDATNVGDEGGFAPNILENKEGLE
LLKTAIGKAGYTDKVVIGMDVAASEFFRSGKYDLDFKSPDDPSRYISPDQLADLYKSFIKDYPVVSIEDPFDQDD
WGAWQKFTASAGIQVVGDDLTVINPKRIAKAVNEKSCNCLLLKVNQIGSVTESLQACKLAQANGWGMVSHRSGE
TEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLLRIEEEELGSKAKFAGRNFRNPLAK

187/2682
FIGURE 174

GGCTGAGGCAGTGGCTCCTTGACAGCAGCTGCACGCGCCGTGGCTCCGGATCTTCTTCGTCTTTGCAGCGTAGC
CCGAGTCGGTCAGCGCCAGAGGACCTCAGCAGCCATGTCGAAGCCCCATAGTGAAGCCGGGACTGCCTTCATTCA
GACCCAGCAGCTGCACGCAGCCATGGCTGACACATTCTGGAGCACATGTGCCGCTGGACATTGATTACCACC
CATCACAGCCCGAACACTGGCATCATCTGTACCATTGGCCAGCTTCCCGATCAGTGGAGACGTTGAAGGAGAT
GATTAAGTCTGGAATGAATGTGGCTCGTCTGAACCTCTCTCATGGAACATCATGAGTACCATGCGGAGACCATCAA
GAATGTGCGCACAGCCACGGAAAGCTTTGCTTCTGACCCCATCCTCTACCGGCCCGTTGCTGTGGCTCTAGACAC
TAAAGGACCTGAGATCCGAACCTGGGCTCATCAAGGGCAGCGGCACTGCAGAGGTGGAGCTGAAGAAGGGAGCCAC
TCTCAAAATCACGCTGGATAACGCCTACATGGAAGGTGACGAGAACATCCTGTGGCTGGACTACAAGAACAT
CTGCAAGGTGGTGAAGTGGGAGCAAGATCTACGTGGATGATGGGCTTATTTCTCTCCAGGTGAAGCAGAAAGG
TGCCGACTTCTTGGTGACGGAGGTGGAAGTGGTGGCTCCTTGGGAGCAAGAAGGGTGTGAACCTTCTGGGGC
TGCTGTGGACTTGCTGTGTGTCGGAGAAGGACATCCAGGATCTGAAGTTTGGGGTCGAGCAGGATGTTGATAT
GGTGTGTCGCTCATTATCCGCAAGGCATCTGATGTCCATGAAGTTAGGAAGGTCTGGGAGAGAAGGGAAAGAA
CATCAAGATTATCAGCAAAATCGAGAATCATGAGGGGTTGGGAGGTTTGAATGAATCCTGGAGGCCAGTGATGG
GATCATGGTGGCTCGTGGTGATCTAGGCATTGAGATTCTCGAGAGAAGGTCTTCTTGGCTCAGAAGATGATGAT
TGGACGGTGCAACCGAGCTGGGAAGCCTGTCTGTGCTACTCAGATGCTGGAGAGCATGATCAAGAAGCCCCG
CCCCACTCGGGCTGAAGGCAGTGATGTGGCCAATGCAGTCTGGATGGAGCCGACTGCATCATGCTGTCTGGAGA
AACAGCCAAAGGGGACTATCCTCTGGAGGCTGTGCGCATGCAGAACCTGATTGCCCGTGAGGCAGAGGCTGCCAT
CTACCACTTGCAATTATTTGAGGAACCTCCGCCGCTGGCGCCCATTACCAGCGACCCACAGAAGCCACCGCCGT
GGGTGCCGTGGAGGCCCTCCTTCAAGTGCTGCAGTGGGGCCATAATCGTCCTCACCAAGTCTGGCAGGTCTGCTCA
CCAGGTGGCCAGATACCGCCACGTGCCCCCATCATTGCTGTGACCCGGAATCCCCAGACAGCTCGTCAGGCCCA
CCTGTACCGTGGCATCTTCCCTGTGCTGTGCAAGGACCCAGTCCAGGAGGCCTGGGCTGAGGACGTGGACCTCCG
GGTGAACCTTTGCCATGAATGTTGGCAAGGCCCGAGGCTTCTTCAAGAAGGGAGATGTGGTCATTGTGCTGACCGG
ATGGCGCCCTGGCTCCGGCTTCACCAACACCATGCGTGTGTTCTCTGTGCCGTGATGGACCCAGAGCCCTCCT
CCAGCCCTGTCCCACCCCTTCCCCAGCCATCCATTAGGCCAGCAACGCTTGTAGAACTCACTCTGGGCTGT
AACGTGGCACTGGTAGGTTGGGACACCAGGGAAGAAGATCAACGCCTCACTGAAACATGGCTGTGTTGCAGCCT
GCTCTAGTGGGACAGCCCAGAGCCTGGCTGCCCCATCATGTGGCCCCACCAATCAAGGGAAGAAGGAGGAATGC
TGGACTGGAGGCCCTGGAGCCAGATGGCAAGAGGGTGACAGCTTCTTTCTGTGTACTCTGTCCAGTTCTT
TTAGAAAAAATGGATGCCCAGAGGACTCCCAACCCTGGCTTGGGGTCAAGAAACAGCCAGCAAGAGTTAGGGGCC
TTAGGGCACTGGGCTGTGTTCCATTGAAGCCGACTCTGGCCCTGGCCCTTACTTGCTTCTCTAGCTCTTAGGC
CTCTCCAGTTTGACCTGTCCCCACCTCCACTCAGCTGTCTGCAGCAAACTCCACCCTCCACCTTCCATTT
TCCCCACTACTGCAGCACCTCCAGGCCTGTTGCCGC

188/2682
FIGURE 175

MSKPHSEAGTAFIQTTQLHAAMADTFLEHMCRLDIDSPITARNTGIICTIGPASRSVETLKEMIKSGMNVARLN
FSHGTHEYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKSGTAELKKGATLKITLDNAYME
KCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKQKGADFLVTEVENGGSLGSKKGVNLPGAAVDLPVSEKD
IQDLKFGVEQDVMVFASFIRKASDVHEVRKVLGEKGKNIKIISKIENHEGVRRFDEILEASDGIMVARGDLGIE
IPAENVFLAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVANAVLDGADCIMLSGETAKGDYPLEAV
RMQNLIAREAEAAIYHLQLFEELRRLAPITSDPTEATAVGAVEASFKCCSGAIIIVLTKSGRSAHQVARYRPRAPI
IAVTRNPQTARQAHLYRGIFPVLCKDPVQEAWAEDVDLRVNFAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTM
RVVPVP

189/2682
FIGURE 176

GGCTTGGTCACTATGGAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCC
CGGCCCCAGACCGGCTGTCTTCTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGCTACAAGAAG
CTGCAGCAAGAGCTGGAGTTCTTGGAGGTGCAGGAGGAATACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAA
TTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCATCCCGCTGGTCATCGGACAATTTCTGGAGGCTGTG
GATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCAACTATTATGTGCGCATCTGAGCACCATCGATCGG
GAGTGCTCAAGCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGCTGCCCCCGAA
GCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGCTCACGCATTTGAGCTCTACAAGCAGATCGGCATC
GATCCCCCGAGGGCGTCTCATGTATGGCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGGCGGTGGCACAT
CACACAACAGCTGCATTTCATCCGGGTCTGGGCTCGGAGTTTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATG
GTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAGACGAGATTGATGCCATCGCC
ACCAAGAGATTGATGCTCAGACAGGGGCCGACAGGGAGGTTGAGAGGATCCTGCTGGAGCTGCTGAATCAGATG
GATGGATTGATCAGAATGTCAATGTCAAGGTAATCATGGCCACAAACAGAGCAGACACCCTGGATCCGGCCCTG
CTACGGCCAGGACGGCTGGACCGTAAAATTGAATTTCCACTTCCTGACCGCCGCCAGAAGAGATTGATTTTCTCC
ACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACTTGGAAAGACTATGTGGCCCGGCCAGATAAGATTTCA
GGAGCTGATATCAACTCCATCTGTGAGGAGAGTGAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCCTGGCC
AAGGACTTCGAGAAAGCATACAAGACTGTCTATCAAGAAGGACGAGCAGGAGCATGAGTTTTACAAGTGACCCCTTC
CCTTCCCTCCACCACACCACTCAGGGGCTGGGGCTTCTCTCGCACCCCCAGCACCTCTGTCCCAAAACCTCATTC
CCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAGATAAGATCGAATCCAAAAAAAAAAAAAAAAAAAAA

190/2682
FIGURE 177

MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDLEDLYSRYKKLQQELEFLEVQEEYIKDEQKNLKKEFLHA
QEEVKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYVVRILSTIDRELLKPNASVALHKHSNALVDVLPPEADSS
IMMLTSDQKPDVYADIGGMDIQKQEVREAVELPLTHFELYKQIGIDPPRGVLMYGPPGCGKTMLAKAVAHHTTA
AFIRVVGSEFVQKYLGEGRMVVDVFR LAKENAPAIIFIDEIDAIATKRFDAQTGADREVQRILLELLNQMDGFD
QNVNVKVIMATNRADTLDPALLRPGRLDRKIEFPLPDORRQKRLIFSTITSKMNLSEEVDLEDYVARPDKISGADI
NSICQESGMLAVRENRYIVLAKDFEKAYKTVIKKDEQEHEFYK

191/2682
FIGURE 178

CCGAGGCCAAGTCCCGGGCGCTAGCCACCTCCCACCCGCTCTTGCTCCTCTCCTCTAGGCCGTCGCTTTCGG
GTTCTCTCATCGCTTCGTCGTTCCGAATGTTTGAGGAGAAGGCCAGCAGTCCTTCAGGGAAGATGGGAGGCGAG
GAGAAGCCGATTGGTGCTGGTGAAGAGAAGCAAAAGGAAGGAGGCCAAAAAGAAGAACAAAGAAGGATCTGGAGAT
GGAGGTCGAGCTGAGTTGAATCCTTGCCCTGAATATATTTACACACGCTTTGAGATGTATAATATACTAAAAGCA
GAACATGATTCCATTCTGGCAGAAAAGGCAGAAAAAGATAGCAAGCCAATTAAAGTCACTTTGCCTGATGGTAAA
CAGGTTGATGCGGAATCTTGAAACTACACCATATCAAATTGCCTGTGGAATTAGTCAAGGCCTGGCCGACAAC
ACCGTTATTGCTAAAGTAAATAATGTTGTGTGGGACCTGGACCGCCCTCTGGAAGAAGATTGTACCTTGAGCTT
CTCAAGTTTGAGGATGAGGAAGCTCAGGCAGTGTATTGGCAGTCTAGTGCTCACATAATGGGTGAAGGCATGGAA
AGAGTCTATGGTGGATGTTTATGTACGGTCCGCCAATAGAAAATGGATTCTATTATGACATGTACCTCGAAGAA
GGGGGTGTGCTAGCAATGATTTCTCTCTGGAGGCTTTGTGTAAGAAAATCATTAAAGAAAAACAAGCTTTT
GAAAGCTGGAAGTTAAGAAAGAACTTTACTGGCAATGTTTAAGTACAACAAGTTCAAATGCCGGATATTGAAT
GAAAAGGTGAATACTCCAACACAGTCTATAGATGTGGCCCTTTGATAGATCTCTGCCGGGGTCTCTATGTT
AGACACACGGGCAAAATTAAGGCTTTAAAAATACACAAAAATTCCTCCACGTAAGGGAAGGCAAGCAGATATG
GAGACTCTCCAGAGATTTATGGCATTTCATTCCCAGATCCTAAATGTGAAAGAGTGGGAGAAGTTCCAAGAG
GAAGCTAAAAACCGAGATCATAGGAAAATTGGCAGGGACCAAGAAGTATATTTCTTTTCACTGAACTCAGCCCTGGA
AGTTGCTTTTTTCTGCCAAAAGGAGTCTATATTTATAATGCACCTTATTGAATTCATTAGGAGCGAATATAGGAAA
AGAGATTTCAGGAGGTAGTCACCCCAACATCTTCAACAGCCGACTCTGGATGACCTCGGGCCACTGGCAGCAC
TACAGCGAGAACATGTTCTCCTTTGAGGTGGAGAAGGAGCTGTTTGCCCTGAAACCCATGAACTGCCAGGACAC
TCCCTTATGTTTGATCATCGGCCAAGGTCTTGCGGAGAACTGCCTCTGCGGCTAGCTGATTTGGGGGTCTTCAT
AGGAACGAGCTGTCTGGAGCACTCACAGGACTCACCCGGGTACGAAGATTCCAACAGGATGATGCTCACATATTC
TGTGCCATGGAGCAGATTGAAGATGAAATAAAAGGTTGTTTGGATTTTCTACGTACGGTATATAGCGTATTTGGA
TTTTCTTTTAACTAAACCTTTCTACTCGCCCGGAAAAATTCCTTGGAGATATCGAAGTATGGGATCAAGCTGAG
AAACAACCTTGAAAACAGTCTGAATGAATTTGGTGAAGTGGGAGTTAACTCTGGAGATGGAGCTTTCTATGGC
CCAAAGATTGACATACAGATTAAAGATGCGATTGGGCGGTACCACAGTGTGCAACCATCCAGCTGGATTTCCAG
TTGCCCATCAGATTTAATCTTACTTATGTAAGCCATGATGGTGAAGATAAGAAAAGGCCAGTGATTGTTTCATCGA
GCCATCTTGGGATCAGTGGAAAGAATGATTGCTATCCTCACAGAAAACATATGGGGGCAAATTGGCCCCCTTTTGG
CTGTCCCTCGCCAGGTAATGGTAGTTCCAGTGGGACCAACCTGTGATGAATATGCCAAAACGTACGACAACAA
TTCCACGATGCCAAATTCATGGCAGACATTGATCTGGATCCAGGCTGTACATTGAATAAAAAGATTGAAATGCA
CAGTTAGCACAGTATAACTTCATTTTAGTTGTTGGTGAAGAAAGAGAAAATCACTGGCACTGTAAATATCCGCACA
AGAGACAATAAGGTCCACGGGGAACGCACCATTTCTGAACTATCGAGCGGCTACAGCAGCTCAAAGAGTTCCGC
AGCAAACAGGCAGAAGAAGAATTTTAAATGAAAAAATTACCCAGATTGGCTCCATGAAAAGGAGGAACAGCGTTT
CCGTAAAATTGACTTTGTAAGTCAAAAACGTCAATTTATATTGAACCTGGAGGAGGAGTTGGCAAAGTCTGAAAT
AGGTCAACCTGCAGGCGTAACATTTTTGACCTAGTCAGTTTTTAAACAATGTGCATTTGAAGGAGTTAATTA
AGAGAGCCAATAAAATGATTTTACTCATTCAAGTATCTGAGTACTGGAAGTGAACATGAGGAATGCTTTAGTGTA
ATGTGGGAGAACTTTTTGTAAATTTAATGCAATTGAAAAAGTTTTCAAATTCATTAAGATACTAGAATTGGT
TATGGTGTAAACCGAATTC

192/2682
FIGURE 179

MGGEKPIGAGEEKQKEGGKKKNKEGSGDGGRAELNPWEYIYTRLEMYNILKAEHDSILA EKA EKDSKPIKVTL
PDGKQVDAESWKTPYQIACGISQGLADNTVIAKVN NVVWDLDRPLEEDCTLELLKFEDEEAQAVYWHSSAHIMG
EGMERVYGGCLCYGPPIENGFFYD MYLEEGGVSSNDFSSEALCKKIIKEKQAFERLEVKKETLLAMFKYNKFKC
RILNEKVNTPTTTVYRCGPLIDLRCRPHVRHTGKIKALKIHKNSSTYWEGKADMETLQRIYGISFPDPKMLKEWE
KFQEEAKNRDHRKIGRDQELYFFHELSPGSCFFLPKGVYIYNALIEFIRSEYRKRGFQEVVTPNIFNSRLWMTSG
HWQHYSENMF SFEVEKELFALKPMNCPGHSLMFDHRPRSWRELPLRLADFGGLHRNELSGALTGLTRVRRFQDD
AHIFCAMEQIEDEIKGCLDFLRTVYSVFGFSFKLNLSTRPEKFLGDI EVWDQAEKQLENSLNEFGEKWELNSGDG
AFYGP KIDIQIKDAIGRYHQCATIQLDFQLPIRFNLT YVSHDGEDKKRPVIVHRAILGSVERMIAILTENYGGKL
APFWLSPRQVMVVPVGPTCDEYAQNVRQQFHD AKFMADIDLDPGCTLNKKIRNAQLAQYNFILVVGEKEKITGTV
NIRTRDNKVHGERTISETIERLQQLKEFRSKQAE EEF

193/2682
FIGURE 180

GGCACGAGGATTTCGCTGCTCCGCAGCACGGCCGGAGCTGGTCCGGTCAAGAGTCGGGATTTGTGGGGAGAGGTTT
TCCACTGGTCAAGAGAAGGCTTTAAGAAAGACGGTATTAATCTCCCGTTGCGGCTCCCGCTGGTCCCATCTTCT
GCCCCGCTCCTCCAGGAAATGAATCTGCTGCCGAATATTGAGAGTCCAGTGAATCGGCAGGAGAAGATGGCGACCG
TGTGGGATGAGGCCGAGCAAGATGGAATTGGGGAGGAGGTGCTCAAGATGTCCACGGAGGAGATCATCCAGCGCA
CACGGCTGCTGGACAGTGAGATCAAGATCATGAAGAGTGAAGTGTGAGAGTCACCCATGAGCTCCAAGCCATGA
AGGACAAGATAAAAGAGAACAGTGAGAAAATCAAAGTGAACAAGACCCTGCCGTACCTTGTCTCCAACGTCATCG
AGCTCCTGGATGTTGATCCTAATGACCAAGAGGAGGATGGTGCCAATATTGACCTGGACTCCCAGAGGAAGGGCA
AGTGTGCTGTGATCAAAACCTCTACACGACAGACGTACTTCTTCTGTGATTGGGTTGGTGGATGCTGAAAAGC
TAAAGCCAGGAGACCTGGTGGGTGTGAACAAAGACTCCTATCTGATCCTGGAGACGCTGCCCACAGAGTATGACT
CGCGGGTGAAGGCCATGGAGGTAGACGAGAGGCCACGGAGCAATACAGTGACATTGGGGGTTTGGACAAAGCAGA
TCCAGGAGCTGGTGGAGGCCATTGTCTTGCCAATGAACCACAAGGAGAAGTTTGAGAACTTGGGGATCCAACCTC
CAAAAGGGGTGCTGATGTATGGGCCCCAGGGACGGGAAGACCCTCCTGGCCCGGGCCTGTGCCGCACAGACTA
AGGCCACCTTCTAAAGCTGGCTGGCCCCAGCTGGTGCAGATGTTTATTGGAGATGGTGCCAAGCTAGTCCGGG
ATGCCTTTGCCCTGGCCAAGGAGAAAGCGCCCTCTATCATCTTATTGATGAGTTGGATGCCATCGGCACCAAGC
GCTTTGACAGTGAGAAGGCTGGGGACCGGGAGGTGCAGAGGACAATGCTGGAGCTTCTGAACCAGCTGGATGGCT
TCCAGCCCAACACCCAAGTTAAGGTAATTGCAGCCACAAACAGGGTGGACATCCTGGACCCCGCCCTCCTCCGCT
CGGGCCGCCTTGACCGCAAGATAGAGTTCCCGATGCCCAATGAGGAGGCCCGGGCCAGAATCATGCAGATCCACT
CCCGAAAGATGAATGTCAGTCCTGACGTGAACACGAGGAGCTGGCCCGCTGCACAGATGACTTCAATGGGGCCC
AGTGCAAGGCTGTGTGTGTGGAGGCGGGCATGATCGCACTGCGCAGGGGTGCCACGGAGCTCACCACGAGGACT
ACATGGAAGGCATCCTGGAGGTGCAGGCCAAGAAGAAAGCCAACCTACAATACTACGCCTAGGGGCACACAGGCCA
GCCCCAGTCTCACGGCTGAAGTGCGCAATAAAAGATGGTTTAGGGTCCCTGCCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

194/2682
FIGURE 181

MNLLPNIESPVTRQEKMATVWDEAEQDGIGEEVLKMSTEEIIQRTRLDSEIKIMKSEVLRVTHELQAMKDQIKE
NSEKIKVNKTLPLYLSNVIELLDVDPNDQEEDGANIDLDSQRKGKCAVIKTSTRQTYFLPVIGLVDAEKLKPGDL
VGVNKDSYLILETLPTFYDSRVKAMEVDERPTEQYSDIGGLDKQIQELVEAIVLPMNHKEKFENLGIQPPKGVLM
YGPPGTGKTLLARACAAQTKATFLKLAGPQLVQMFIDGAKLVDRDAFALAKEKAPSIIFIDELDAIGTKRFDSEK
AGDREVQRTMLELLNQLDGFQPNTOVKVIAATNRVDILDPALLRSGRLDRKIEFPMPNEEARARIMQIHSRKMN
SPDVNYEELARCTDDFNGAQCKAVCVEAGMIALRRGATELTHEDYMEGILEVQAKKANLQYYA

195/2682
FIGURE 182

GGCACCGCGCGGGACGGAGCTTGGCTGTTGGTTCGGTGGGTTCCTGTCGGCGGGCGGCCAAGGAGGAGGAGACACA
GTTGGAGCAGCTCCGTGGGCTGACTGGGGCGAGGCCTCAGCAGCGCGAGCTTGAGTGC GGCCGAGCCTGCGGCGC
CTTCCCTGCGGGTGGGGACGAGCGGGCCCCGCGCGTTCATCGGCGGCGAGGAGCCGCGCGCCTCGGCCTAGCA
TGTCGGAAGCGGGCGAGGAGCAGCCCATGGAGACGACGGGCGCCACCGAGAACGGACATGAGGCCGTCCCCGAAG
CGAGTGC GGCCGCGGGCTGGACGGGCGCGCGCGGGGCTGGAGGCGCGACCGCCGCGCCCCGAGCGGGAATCA
GAACGGCGCCGAGGGACAGATCAACGCCAGCAAGAACGAGGAGGACGCGGGAATAATGTTTCGTTGGTGGCCTGA
GCTGGGATACTAGCAAAAAAGATTTAAAAGACTATTTTACTAAATTTGGAGAGGTCGTTGACTGTACAATAAAAA
TGGATCCCAACACTGGACGGTCAAGAGGGTTTGGGTTTATCCTGTTCAAAGATGCAGCCAGTGTGGAGAAGGTCC
TAGACCAGAAGGAGCACAGGCTGGATGGCCGTGTCATTGACCCTAAAAAGGCCATGGCTATGAAGAAGGACCCGG
TCAAGAAAACTTTCGTTGGGGTCTGAATCCTGAAAGTCCCCTGAGGAAAAGATCAGGGAGTACTTTGGCGAGT
TTGGGGAGATTGAGGCCATTGAATTGCCAATGGATCCAAAGTTGAACAAAAGACGAGGTTTTGTGTTTATCACCT
TTAAAGAAGAAGAACCCGTGAAGAAGTTCTGGAGAAAAAGTTCCATACTGTCAGTGGAAGCAAGTGTGAGATCA
AGGTGGCCAGCCCAAAGAAGTCTATCAGCAGCAGCAGTATGGCTCTGGGGGCCGTGGAACCGCAACCGAGGGA
ACCGAGGCAGCGGAGGTGGTGGTGGAGGTGGAGGTCAGAGTCAGAGTTGGAATCAGGGCTACGGCAACTACTGGA
ACCAGGGCTACGGCTACCAGCAGGGCTACGGGCCTGGCTATGGCGGCTACGACTACTCGCCCTATGGCTATTACG
GCTACGGCCCCGGCTACGACTACAGTCAGGGTAGTACAACTACGGCAAGAGCCAGCGACGTGGTGGCCATCAGA
ATAACTACAAGCCATACTGAGGCGGCCAAGGGAGCGACCAACTGATCGCACACATGCTTTGTTTGGATATGGAGT
GAACACAATTATGTACCAAATTTAACTTGGCAAATTTCTATTGCCTGTCCCATGTGCATCTTATTTAAATTTT
CCCCATGGAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTGTTTAGGCAGCGTGTGGTGTCTGAGAGGC
CATAGCGCCATCATGGGCTGATTTTTATTACCAGGTCCCCCAGAAGCAGGTGAGAGGCTCTGCTTCCTGTGCGC
CTCTGCAGCCTGGACCTGTGGACCCTGGTTGTAAAGAGTAAATGTATCTTAGGAAACCAGTGTACCTTTTTTT
CACCTTTTTAATTTTATATTATTGCGTCATACATTTCTGTAAACGGAAGTGTTAATTTTACTGTACTTTTTGGTA
CCCCTTTTGGGAATCTAATGTATTGTAAGGTATTTTACACGTGTCCTGATTTGCCACAACCTGGATATTGAAGC
TATCCAAGCTTTTGAATAAAATTTAAAAACCCCAAGCCTGGGTGAGTGTGGGAAAAAAAAAAAAAAAAA

196/2682
FIGURE 183

MSEAGEEQPMETT GATENGHEAVPEASRGRGWTGAAAGLEARPPRPRAGIRTAPRDQINASKNEEDAGKMFVGGL
SWDTSKDLKDYFTKFGVVDCTIKMDPNTGRSRGFGFILFKDAASVEKVLDQKEHRLDGRVIDPKKAMAMKKDP
VKKIFVGGLNPESPTEEKIREYFGEFGEIEAIELPMDPKLNKRRGFVFITFKEEEPVKVLEKKFHTVSGSKCEI
KVAQPKEVYQQQYGS GGRGNRNRGRSGGGGGGGGQSQSWNQGYGNYWNQGYGYQQGYGPGYGGYDYSPIGY
GYGPGYDYSQGSTNYGKSQRRGGHQNNYKPY

197/2682
FIGURE 184

TAGCTGGATTCCAGCCATTGCTGCAGCTGCTCCACAGCCCTTTTCAGGACCCAAACAACCGCAGCCGCTGTTCCC
AGGATGGTGATCCGTGTATATATTGCATCTTCCTCTGGCTCTACAGCGATTAAGAAGAAACAACAAGATGTGCTT
GGTTTCCTAGAAGCCAACAAAATAGGATTTGAAGAAAAAGATATTGCAGCCAATGAAGAGAATCGGAAGTGGATG
AGAGAAAATGTACCTGAAAATAGTCGACCAGCCACAGGTTACCCCTGCCACCTCAGATTTTCAATGAAAGCCAG
TATCGCGGGGACTATGATGCCTTCTTTGAAGCCAGAGAAAATAATGCAGTGTATGCCTTCTTAGGCTTGACAGCC
CCACCTGGTTCAAAGGAAGCAGAAGTGCAAGCAAAGCAGCAAGCATGAACCTTAAGCACTGTGCTTTAAGCATCC
TGAAAAATGAGTCTCCATTGCTTTTATAAAATAGCAGAATTAGCTTTGCTTCAAAGAAAATAGGCTTAATGTTGA
AATAATAGATTAGTTGGGTTTTACATGCAAACATTCAAATGAATACAAAATTAATTTGAACATTATGGTGA
TTATGGTGAGGAGAATGGGATATTAACATAAAATTATATTAATAAGTAGATATCGTAGAAAATAGTGTGTACCT
GCCAAGCCATCCTGTATACACCAATGATTTTACAAAGAAAACACCCTTCCCTCCTTCTGCCATTACTATGGCAAC
TTAAGTGTATCTGCAGCTCTACATTAAGGAGAGAAAGAGAAAATAACCTGTCTCTCATTCTTAAGTTGCCTCATT
AATTTTCATGAACAAGAATATGTACCTTTTTGATGCTATATTACTGCGATTAAAAAGTTCTTGCAGGTAATGTT
TATGTATAGTTAAACGTTGTAATTTCTTATCGTAATTATAACATTCCCATTTCTTGTAGATGAACTCTACATAT
GAACACAGATTTTCTGAGCTTCTAAATGTAGCCTTTTCATTGCACATTTTCAGTGATCAGAATAGATATCCTTTTA
CACGCACAAAAGCAATAGATTTCATTAGTGACAAAGTTCCTTGTTTAACTACACAGCTATGATGGAATCATATAT
CCAAGTTCCTTGCCCTCAGTGAAATATGCATATGTATATCATGAAGTGGGATGCCAAGTAAGCTTAAATGCATTC
TCTAGCAAAGAGATTAGACTTTTTAAATAACTCTTATAAAACAGGTTGGCGATCATTTCCTCAAGATTGGTTTCCCT
TGAGTTTTTGTAAACAAATCTTAGTAGTTTTGCCGTTTAAACAACTCACAATCGTAAATGCTACTATTCCCT
AAGATATCTTACCTTTTTATTTCAGTTTAGCCATGTATTGTATGAGTGTATTAGTCTAAGCAGTGAGAATCTTTT
CTATGCCTCTATTCCAGCAAAAAGTAGAAGTATCAAATAAAAAGGGCAACTTTTAAATATTAAGCCTGAAGACT
TCTAAAAAGACAAGAACATGGCCTAAATAACCAACATAGATTTACATAGTAAGTTTCACTACCTTATTACCA
AAAGCAAAACACCTCTTACTTTAACTACATTATCATGTATATCTATTGTATGCTGGTCTTTACTTTTGCCAAA
TCAACATATAATGAAGAGATGCCTTTGTTTGATGAGATTCAAACCTTGATGCTATGCTTTAAATAAACTCAGTAC
TTTTAGAAACATAAAAAAAAAAAAAAAAAAAAAAAAAA

198/2682
FIGURE 185

MVIRVYIASSSGSTAIKKKQDVLGFLEANKIGFEEKDIAANEENRKWMRENVPENSRPATGYPLPPQIFNESQY
RGDYDAFFEARENNAVYAFLGLTAPPGSKEAEVQAKQQA

ATGGCGGAGCGCGGGTACAGCTTTTCGCTGACTACATTACAGCCCGTCTGGTAAACTTGTCAGATTGAATATGCT
TTGGCTGCTGTAGCTGGAGGAGCCCCGTCCGTGGGAATTAAAGCTGCAAAATGGTGTGGTATTAGCAACTGAGAAA
AAACAGAAATCCATTCTGTATGATGAGCGAAGTGTACACAAAGTAGAACCAATTACCAAGCATATAGGTTTGGTG
TACAGTGGCATGGGCCCCGATTACAGAGTGCTTGTGCACAGAGCTCGAAAAGTAGCTCAACAATACTATCTTTGTG
TACCAAGAACCCATTCTACAGCTCAGCTGGTACAGAGAGTAGCTTCTGTGATGCAAGAATATACTCAGTCAGGT
GGTGTTCGTCCATTGGAGTTTCTTTACTTATTTGTGGTTGGAATGAGGGACGACCATATTTATTTTCAGTCAGAT
CCATCTGGAGCTTACTTTGCCTGGAAAGCTACAGCAATGGGAAAGAACTATGTGAATGGGAAGACTTTTCCTTGAG
AAAAGATATAATGAAGATCTGGAAGCTGGAAGATGCCATTTCATACAGCCATCTTAACCTAAAGGAAAGCTTTGAA
GGGCAAAATGACAGAGGATAACATAGAAGTTGGAATCTGCAATGAAGCTGGATTTAGGAGGCTTACTCCAAGTAA
GTTAAGGATTACTTGGCTGCCATAGCATAAACAAATGAAGTGACTGAAAAATCCAGAATTTTCAGATAATCTATCTAC
TTAAACATGTTTAAAGTATGTTTTGTTTTGCAGACTTTTTGCATACTTATTTCTACATGGTTTAAATCGACTGTT
TTTAAATGACACTTATAAATCCTAATAAACTGTTAAACCC

200/2682
FIGURE 187

MAERGYSFSLTTFSPSGKLVQIEYALAAVAGGAPSVGIKAANGVVLATEKKQKSILYDERSVHKVEPITKHIGLV
YSGMGPDYRVLVHRARKLAQQYYLVYQEP IPTAQLVQRVASVMQEYTSGGVRPFGVSLICGWNEGRPYLFQSD
PSGAYFAWKATAMGKNYVNGKTFLEKRYNEDLELEDAIHTAILTLKESFEGQMTEDNIEVGICNEAGFRRLTPTE
VKDYLAIA

201/2682
FIGURE 188

GC GATT CGGT GGCAC GTG GAGCCAC GGC GTGG GAGTAG GGGGGCTGA AGGCAGGCAGCAGCGGCCAGGGCCGCCCT
CTGCTAGCCGCTTGGGTCTCGGGATACCCCGTTTCTTCTGTAGGTGTGGGACGTGCGTGCGGCGAGATGGACAC
TCCCCGCTCTCGGATTCGGAGTCGGAATCCGATGAATCCCTTGTACAGACAGAGAGTTGCAGGATGCGTTTTC
CCGAGGGCTTCTGAAGCCAGGCCTCAATGTCGTGCTAGAGGGGGCCGAAGAAGGCCGTGAACGACGTGAATGGCCT
GAAGCAATGTTTGGCAGAAATCAAGCGGGATCTGGAATGGGTTGAAAGGCTCGATGTGACACTGGGTCCGGTACC
GGAGATCGGTGGATCTGAGGCGCCAGCACCTCAGAACAAGGACCAGAAAGCTGTTGATCCAGAAGACGACTTCCA
GCGAGAGATGAGTTTCTATCGCCAAGCCCAGGCCGAGTGCTTGACAGTCTTACCCCGCCTCCATCAGCTCAAAGT
CCCTACGAAGCGACCCACTGATTATTTTGCGGAAATGGCCAAATCTGATCTGCAGGTGCAGAAGATTTCGACAGAA
GCTGCAGACTAAACAGGCTGCCATGGAGAGGTCTGAAAAAGCTAAGCAACTGCGAGCACTTAGGAAATACGGGAA
GAAGGTGCAAACGGAGGTTCTTCAGAAGAGGCAGCAGGAGAAAGCCCATATGATGAATGCTATTAAGAAATATCA
GAAAGGCTTCTCTGATAAACTGGATTTCTTGAGGGAGATCAGAAACCTCTGGCACAGCGCAAGAAGGCAGGAGC
CAAAGGCCAGCAGATGAGGAAGGGGCCCAGTGCTAAACGACGGTATAAAAAACCAGAAGTTTGGTTTTGGTGAAAA
GAAGAAAGGCTCAAAGTGGAACACTCGGGAGAGCTATGATGATGTATCTAGCTTCCGGGCCAAGACAGCTCATGG
CAGAGGCCTCAAGAGGCCTGGCAAGAAAGGGTCAAATAAGAGACCTGGAAAACGAACAAGAGAGAAGATGAAGAA
CAGAACACACTAAATAGCATCTTTGAATACAAAGAACCAAGAAAAAGGAATGAAGACTCGCAATTTACGACACA
CTTTGATCCCTTCTGTTGGTGTTCATGTTGTAAACATTTCTTTCAATAAACTAAAGAAAAATTATTAAAGGAACAC
ATACCTTTGGTTAAATAGTCTAGACTAAAAGATTGAGAAGTTACTTTCCATTGCTATCTATTGATAATTTAGACA
TTGAGTTCAAATTGCCTTCATTTTATGATAAATAATGATTAACTGAAAA

202/2682
FIGURE 189

MDTPPLSDSESESLVTDRELQDAFSRGLLKPGLNVLLEGPKKAVNDVNLKQCLAEFKRDLEWVERLDVTLG
PVPEIGGSEAPAPQNKDQKAVDPEDDFQREMSFYRQAQAAVLAVLPRLHQLKVPTKRPTDYFAEMAKSDLQVQKI
RQKLQTKQAAMERSEKAKQLRALRKYGKKVQTEVLQKRQOEKAHMMNAIKKYQKGFSDKLDFLEGDQKPLAQRKK
AGAKGQOMRKGPSAKRRYKNQKFGFGGKKKGSKWNTRESYDDVSSFRAKTAHGRGLKRPGKKGSNKRPGKRTREK
MKNRTH

203/2682
FIGURE 190

GCCGCGCCGGCTCTGGGCACTCAGCATCGTTTCCTTTTCTCCGCTGGAGCAGCTATGGCGCGGGTGAAGACCCT
GAACCCCAAGGCCGAGGTGGCCCGAGCGCAGGCGGCGCTGGCGGTCAACATCAGCGCAGCGCGGGGTCTGCAGGA
CGTGCTAAGGACCAACCTGGGGCCCAAGGGCACCATGAAGATGCTCGTTTCTGGCGCTGGAGACATCAAACCTTAC
TAAAGACGGCAATGTGCTGCTTCACGAAATGCAAATTC AACACCCCAACAGCTTCCTTAATAGCAAAGGTAGCAAC
AGCCAGGATGATATAACTGGTGATGGTACGACTTCTAATGTCTAATCATTGGAGAGCTGCTGAAACAGGCGGA
TCTCTACATTTCTGAAGGCCTTCATCCTAGATAATCACTGAAGGATTTGAAGCTGCAAAGGAAAAGGCCCTTCA
GTTTTTGGAGAAGTCAAAGTAAGCAGAGAGATGGACAGGGAAACACTTATAGATGTGGCCAGAACATCTCTTCG
TACTAAAGTTCATGCTGAACCTGCAGATGTCTTAACAGAGGCTGTAGTGGACTCCATTTTGGCCATTAAAAAGCA
AGATAACCTATTGATCTCTTCATGATTGAGATCATGGAGATGAAACATAAATCTGAAACTGATACAGCTTAAT
CAGAGGGCTTGTTTTGGACCACGGAGCACGGCATCCTGATATGAAGAAAAGGGTGGAGGATGCATACATCCTCAC
TTGTAACGTGTCATTAGAGTATGAGAAAACAGAAGTGAATTCTGGCTTTTTTACAAGAGTGCAGAAGAGAGAGA
AAAACCTCGTGAAAGCTGAAAGAAAATTCATTGAAGATAGGGTTAAAAAATAATAGAACTGAAAGGAAAGTCTG
TGGCGATTAGATAAAGGATTTGTTGTTATTAATCAAAGGGAATTGACCCCTTTTCTTAGATGCTCTTTCAA
AGAAGGCATAGTCGCTCTGCGCAGAGCTAAAAGGAGAAAATATGGAGAGGCTGACTCTTGCTTGTGGTGGGTAGC
CCTGAATTCCTTTGACGACCTAAGTCCTGACTGCTGGGACATGCAGGACTTGTATATGAGTATACATTGGGAGA
AGAGAAGTTTACCTTTATTGAGAAATGTAACAACCTCGTTCTGTACATTATTGATCAAAGGACCAATAAGCA
CACACTCACTCAGATCAAAGATGCAGTGAGGGACGGCTTGAGGGCTGTCAAAAATGCTATTGATGATGGCTGTGT
GGTTCAGGTGCTGGTGCCGTGGAAGTGGCAATGGCAGAAGCCCTGATTAAACATAAGCCAGTGTAAGGGCAG
GGCAGAGCTTGGAGTCCAAGCATTGCTGATGCATTGCTCATTATTCCCAAGTTCTTGCTCAGAACTCTGGTTT
TGACCTTCAGGAAACATTAGTTAAAATTC AAGCAGAACATTGAGAATCAGGTCAGCTTGTGGGTGTGGACCTGAA
CACAGGTGAGCCAAATGGTGGCAGCAGAAGTAGGCGTATGGGATAACTATTGTGTAAAGAAACAGCTTCTTCACTC
CTGCACTGTGATTGCCACCAACATTCTCTTGGTTGATGAGATCATGCGAGCTGGAATGTCTTCTGAAAGGTG
ATTGAAGCTTCCTCTGTATCTGAATCTTGAAGACTGCAAAGTGATCCTGAGGATTACAGCTGTGGAATTTTGT
CCAAGCTTCAAATAATTTTGAAAGAAATTTTCCCATATGAAAAAGGAGAGAACTGGCATCTGTTGAAATTTG
GAAGTTCTGAAATTATAGTATTTTAAAAATTGCACTGAAGTGATACACATAAAGCAGGTCTTTATCCAGTGA
ACAGGATGTTTTGCTTTAGCAGCAGTGACATAAAATTCATGTTAGATAAGCATATGTTACTTACCTTGTATTATTA
AATATTTCTTGAAAAGCAAATTTTAAATGGTTAATTTTATGTGGACGTATGTTAAATTATCCAACTACCTTATTG
TTAAGCATTGTTGTTTTAAAAATTTTATGCTAATATAAATGCTCAAGTAATTTAAATATTGAAAGCATCCCTGTT
GGTATAAATTTCTGAGTAAATGCATTGGATCAGTTGGACTTTGAACGCCCTTTGAAATGGCTTGCTAAAATGCT
CCCGCCACAAAGTTGTAGGAAATGGGAAGAGGAGTCAACTAGAGGCAAGGGAGTTGAGAGAGCTGCAACTGTAAA
GGGCAAGAACAGGCAGAGGTAAAAAGATGATGGAAGGTGTGGTGAATAAGGGCCACGGTTATTGGGTGAAATTTG
AGATGTAGGCCAACTGTATTTTCAAGCTTCTGAACCTAAGGCAAAATATTATCGCAAAGTCTCTAGCGTCATAT
TTTTCTCACCCAAATTACGTTTCCACGAGTTATTATATAGTTGGTCTATCTCTGCAGTCCTTGAAGGTGAAGT
TGTGTGTTACTAGGCTGTGTTTTGGGATGTCAGCAGTGGCCTGAAGTGAGTTGTGCAATAAATGTTAAGTTGAAA
CCTCAAAAAAA

204/2682
FIGURE 191

MAAVKTLNPKAEVARAQAAALAVNISAARGLDVLRNLGPKGTMKMLVSGAGDIKLTGDGNVLLHEMQIQHPTAS
LIAKVATAQDDITGDGTTSNVLIIGELLKQADLYISEGLHPRIITEGFEEAKEKALQFLEEVKVSREMDRETLID
VARTSLRTKVHAEADVLTEAVVDSILAIKKQDEPIDLFMIEIMEMKHKSETDTSIRGLVLDHGARHPDMKKRV
EDAYILTCNVSLEYEKTEVNSGFFYKSAEEREKLVKAERKFIEDRVKKIIEKRRKVCSDKGFFVINQKGIDPF
SLDALSKEGIVALRRARRNMERLTLACGGVALNSFDDLSPDCLGHAGLVYEYTLGEEKFTFIEKCNNPRSVTLL
IKGPNKHTLTQIKDAVRDGLRAVKNAIDDGCVVPGAGAVEVAMAEALIKHKPSVKGRAQLGVQAFADALLIIPKV
LAQNSGFDLQETLVKIQAEHSESGQLVGVDLNTGEPMVAAEVGVWDNYCVKKQLLHSCVTIATNILLVDEIMRAG
MSSLKG

205/2682
FIGURE 192

GCCGCGCCGGCTCTGGGCACTCAGCATCGTTTCCTTTTCTCCGCTGGAGCAGCTATGGCGCGGTGAAGACCCT
GAACCCCAAGGCCGAGGTGGCCCGAGCGCAGCGCGGCTGGCGGTCAACATCAGCGCAGCGCGGGGTCTGCAGGA
CGTGCTAAGGACCAACCTGGGGCCCAAGGGCACCATTGAAGATGCTCGTTTCTGGCGCTGGAGACATCAAACCTTAC
TAAAGACGGCAATGTGCTGCTTCACGAAATGCAAATTC AACACCCCAACAGCTTCCTTAATAGCAAAGGTAGCAAC
AGCCCAGGATGATATAACTGGTGATGGTACGACTTCTAATGTCTAATCATTGGAGAGCTGCTGAAACAGGCGGA
TCTCTACATTTCTGAAGGCCTTCATCCTAGATAATCACTGAAGGATTTGAAGCTGCAAAGGAAAAGGCCCTTCA
GTTTTTGAAGAAGTCAAAGTAAGCAGAGAGATGGACAGGGAAACACTTATAGATGTGGCCAGAACATCTCTTCG
TACTAAAGTTTATGCTGAACCTGCAGATGTCTTAACAGAGGCTGTAGTGGACTCCATTTTGGCCATTAAAAAGCA
AGATGAACCTATTGATCTCTTCATGATTGAGATCATGGAGATGAAACATAAATCTGAAACTGATACAAGCTTAAT
CAGAGGGCTTGT TTTGGACCACGGAGCAGGCATCCTGATATGAAGAAAAGGGTGGAGGATGCATACATCCTCAC
TTGTAACGTGTCTATTAGAGTATGAGAAAACAGAGTGAATTCTGGCTTTTTTACAAGAGTGCAGAAGAGAGAGA
AAAACCTCGTGAAAGCTGAAAGAAAATTCATTGAAGATAGGGTTAAAAAATAATAGAACTGAAAGGAAAAGTCTG
TGGCGATTGAGATAAAGGATTTGTGTATTATAAAGGGAATTGACCCCTTTTCTTAGATGCTCTTTCAA
AGAAGGCATAGTCGCTCTGCGCAGAGCTAAAAGGAGAAAATATGGAGAGGCTGACTCTTGCTTGTGGTGGGGTAGC
CCTGAATCTTTTGACGACCTAAGTCCTGACTGCTGGGACATGCAGGACTTGTATATGAGTATACATTGGGAGA
AGAGAAGTTTACCTTTATTGAGAAATGTAACAACCTCGTTCTGTACATTATTGATCAAAGGACCAAATAAGCA
CACACTCACTCAGATCAAAGATGCAGTGAGGGACGGCTTGAGGGCTGTCAAAAATGCTATTGATGATGGCTGTGT
GGTCCAGGTGCTGGTGCCGTGGAAGTGGCAATGGCAGAAGCCCTGATTAAACATAAGCCAGTGTAAGGGCAG
GGCAGAGCTTGGAGTCCAAGCATTGTGCTGATGCATTGCTCATTATTCCCAAGTTCTTGCTCAGAACTCTGGTTT
TGACCTTCAGGAAACATTAGTTAAAAATCAAGCAGAACATTGAGATCAGGTGAGCTTGTGGGTGTGGACCTGAA
CACAGGTGAGCCAAATGGTGGCAGCAGAAGTAGGCGTATGGGATAACTATTGTGTAAAGAAACAGCTTCTTCACTC
CTGCACTGTGATTGCCACCAACATTCTCTGGTTGATGAGATCATGCGAGCTGGAATGTCTTCTGAAAGGTTG
AATTGAAGCTTCCTCTGTATCTGAATCTTGAAGACTGCAAAGTGATCCTGAGGATTACAGCTGTGGAATTTTGT
CCAAGCTTCAAATAATTTTGAAGAAAATTTCCCATATGAAAAAAGGAGAGAACTGGCATCTGTTGAAATTTG
GAAGTTCTGAAATTATAGTATTTTTAAAAATTCAGTGAAGTGATACACATAAAGCAGGTCTTTATCCAGTGA
ACAGGATGTTTTGCTTTAGCAGCAGTGACATAAAATTCATGTTAGATAAGCATATGTTACTTACCTTGTATTATTA
AATATTCTTGAAAGCAAATTTTAAATGGTTAATTTTATGTGGACGTATGTTAAATTATCCAACTACCCTATTG
TTAAGCATTGTGTTTTTAAAAATTTTATGCTAATATAAATGCTCAAGTAATTTAAAAATATTGAAAGCATCCCTGTT
GGTATAAATTTCTGAGTAAATGCATTGGATCAGTTGGACTTTGAACGCCCTTTGAAATGGCTTTGCTAAAATGCT
CCCGCCACAAAGTTGTAGGAAATGGGAAGAGGAGTCAACTAGAGGCAAGGGAGTTGAGAGAGCTGCAACTGTAAA
GGGCAAGAACAGGCAGAGGTAAAAAGATGATGGAAGGTGTGGTGACTAAGGGCCACGGTTATTGGGTGAAATTTG
AGATGTAGGCCAACTGTATTTTCAAGCTTCTGAACCTAAGGCAAAATATTTCGCAAAGTCTCTAGCGTCATAT
TTTTCTCACCCAAATTACGTTTCCACGAGTTATTATATATAGTTGGTCTATCTCTGCAGTCCTTGAAGGTGAAGT
TGTTGTTACTAGGCTGTGTTTTGGGATGTCAGCAGTGGCCTGAAGTGAGTTGTGCAATAAATGTTAAGTTGAAA
CCTCAAAAAAA

206/2682
FIGURE 193

MAAVKTLNPKAEVARAQAALAVNISAARGLQDVLRTNLGPKGTMKMLVSGAGDIKLTGDGNVLLHEMQIQHPTAS
LIAKVATAQDDITGDGTTSNVLIIGELLKQADLYISEGLHPRIITEGFEEAAKEKALQFLEEVKVSREMDRETID
VARTSLRTKVHAEADVLTEAVVDSILAIAKKQDEPIDLFMIEIMEMKHKSETDTSIRGLVLDHGARHPDMKKRV
EDAYILTCNVSLEYEKTEVNSGFFYKSAEEREKLVKAERKFIEDRVKKIIELKRKVCGDSKGFVVINQKGIDPF
SLDALSKEGIVALRRARRNMERLTLACGGVALNSFDDLSPDCLGHAGLVYEYTLGEEKFTFIEKCNNPRSVTLL
IKGPNKHTLTQIKDAVRDGLRAVKNAIDDGCVVPGAGAVEVAMAEALIKHKPSVKGRAQLGVQAFADALLIIPKV
LAQNSGFDLQETLVKIQAEHSESGQLVGVDLNTGEPMAAEVGVWDNYCVKKQLLHSCVTIATNILLVDEIMRAG
MSSLKG

207/2682
FIGURE 194A

GGCCCCAATGAGTGGCACACAGTCTACTATCACCGACAGGTTTCCCCTCAAAAAACCTATAAGGCATGGAAGTAT
TTTGAACCGAGAGTCACCAACAGATAAGAAGCAGAAAGTTGAGCGCATTGCATCACATGATTTTGACCCACAGA
TAGCTCCTCCAAGAAGACAAAGTCTAGTTTACAGAGAGAGTAGATCCGAGATATATGGTCTTGTTACAGCGTTGCGT
AATCATCCAGAAAGATGACAATGGATTTGGGCTGACGGTCAGTGGAGACAATCCAGTCTTCGTACAGTCTGTCAA
AGAAGATGGAGCAGCCATGCGGGCTGGAGTACAGACAGGTGATCGAATCATCAAGGTGAATGGAACCTCTGGTGAC
TCATTCAAATCATCTGGAGGTGGTGAAGCTAATCAAATCTGGTTCTTATGTAGCTCTCACTGTTACAGGACGCCC
ACCTGGGTGCGCCACAGATTCCACTTGCCGACTCTGAAGTAGAGCCGTCAGTCATTGGACATATGTCTCCCATCAT
GACATCTCCTCATTACCTGGAGCATCTGGGAATATGGAGAGAATCACTAGTCTGTGCTCATGGGGGAGGAAAA
CAATGTGGTTCATAACCAGAAAGTAGAAATTCTGAGAAAAATGTTACAGAAAGAACAGGAACGGCTACAGTTATT
GCAGGAAGATTACAACCGAACACCTGCCCAAAGATTGCTAAAAGAGATCCAAGAGGCCAAGAAACACATTCTCTCA
GCTGCAAGAGCAGTTATCCAAAGCCACAGGCTCTGCTCAGGATGGAGCTGTAGTTACACCCTCCAGACCTTTAGG
GGACACCCTAACAGTCAGTGAGGCAGAAACAGATCCTGGAGATGTACTGGGCAGGACTGACTGTAGCAGTGGAGA
TGCTTCTCGGCCCAGTAGTGACAATGCAGATAGTCCCAAGAGTGGCCCAAAAGAGAGAATTTATCTAGAGGAAAA
CCCAGAGAAAAGTGAAACAATTCAGGACACTGACACTCAATCACTTGTGCGAAGTCCCTCAACCCGTATAGCACC
TCATATTATTGGAGCAGAAGATGATGATTTTGGTACTGAACATGAACAGATCAATGGACAGTGCAGCTGTTTCCA
GAGCATTGAATTACTAAAATCTCGCCCGGCTCATTGGCTGTTTTCTTACACCATGTAGTTTACAAATTTGACCC
TGCGACTTTGCTCTGTTATCTCTATTTCAGACCTGTATAAACATACCAATTCCAAAGAACTCGTCGCATCTTCT
TGAGTTTCATCAGTCTTTCTAGATCGATCAGCACACCTGAAAGTTTCTGTTCTGTATGAAATGTCTGCAGATCT
AGAAAAGAGAAGACCTGAGCTCATTCTGAGGATCTGCATCGCCACTATATCCAACTATGCAAGAAAGAGTCCA
TCCAGAAGTTCAAAGGCACCTTAGAAGATTTTGGCGAGAAACGTAGTATGGGACTGACCTTGGCTGAAAGCGAGCT
GACTAAACTTGAAGAGCGAGACAAAGGACCGATTGACTTTGGAGAAGGAGCGGACATGTGCAGAACAGATTGT
TGCCAAAATTGAAGAAGTATTGATGACTGCTCAGGCTGTAGAGGAAGATAAGAGCTCCACCATGCAGTATGTTAT
TCTCATGTATATGAAGCATTGGGAGTAAAAGTGAAAGAGCCTCGAAATTTGGAGCACAAACGGGGTTCGGATTGG
ATTTCTTCCCAAAATCAAGCAAAGTATGAAGAAAGATAAAGAAGGGGAAGAAAAAGGGAAGCGAAGAGGATTCCC
CAGCATCCTGGGACCCACCGAGACCAAGCCGTATGACAACAGTGAATTTGGCAGAGCCATGGAACCTACAGAA
GGCGCGCCACCCTAAGCACTTATCCACACCCTCATCTGTGAGTCTGAACTCAGGACTCTGCCAAGTTGCGCCA
GAGTGGGTTAGCAAATGAAGGAACAGACGCTGGATACCTGCCTGCCAATTCATGTCTTCTGTAGCTTCAGGGG
CTCTTTTTCCAGGAAGGAGGGAAGAGAAATGATACAGGATCAAAGCAAGTTGGAGAAACATCAGCACCTGGAGA
CACCTTAGATGGCACACCTCGTACTCTCAATACTGTCTTTGATTTCACCACCTCCATTAGACCAAGTGCAGGA
GGAGGAATGTGAAGTAGAAAGGTGACTGAACATGGGACACCAAGCCCTTTGAAAGTTTGACAGTGTAGCTTT
TGGAGAAAGTCAAAGTGAGGATGAACAATTTGAAATGACTTAGAGACAGACCCACCAACTGGCAGCAGCTTGT
TAGTCGAGAAGTGTTACTGGGACTAAAACCTTGTGAAATCAAAGACAGGAAGTGATTAATGAATTGTTCTACAC
TGAAAGAGCTCATGTTGCAACACTGAAGGTTCTGTATCAAGTGTCTATCAGCGAGTATCCAGAGAAGGAATTCT
GTCACCCTCAGAGCTACGGAAAATTTTTCAAACCTGGAAGATATTCTTCAACTTCATATTGGATTGAATGAACA
AATGAAGGCTGTTCGAAAGAGAAATGAGACCTCTGTTATCGATCAGATTGGGGAAGATTGCTGACATGGTTTCA
CGGACCAGGAGAGGAGAAATTGAAACATGCTGCTGCTACCTTTTGCAGTAACCAACCTTTGCGCCTGGAATGAT
CAAATCTCGTCAGAAAAAGGATTCTCGATTTTCAAGCTTTTGTGCAAGATGCTGAAAGTAATCCACTGTGCTCG
TCTTCAACTGAAGGATATTATTCCCACTCAAATGCAAAGGCTTACTAAGTACCCACTTCTGTTGGATAATATTGC
CAAATACACAGAATGGCCAACAGAAAGGGAGAAGGTGAAGAAAGCTGCAGATCACTGTGCTCAGATCTTAAATTA
TGTAATCAGGCTGTCAAGGAGGCAGAAAACAAGCAGCGCCTAGAAGATTATCAGCGTCGCTTGATACCTCCAG
CCTGAAGTTGTGAGATACCCAAATGTTGAAGAGCTCAGGAATTTGATTAAACAAAAGGAAGATGATTCATGA
AGGGCCATTGGTTTGAAGGTGAATAGAGATAAACTATTGATTTATACACGTTGCTGCTGGAAGACATTCTTGT
ATTGTTACAAAAGCAGGATGATAGACTGGTTTTAAGGTGTCATAGTAAGATTCTGGCATCTACAGCTGATAGCAA
ACACACGTTTAGCCCTGTCATTAAGTTGAGTACAGTGTGGTTTGCACAAGTGGCAACAGATAACAAAGCTTTATT
CGTCAATTTTCATGTGACACAATGGCGCTCAGATTTATGAAGTGGTGGCAGACAGTTTCTGAAAAGACTGTCTG
GCAGGACCTAATCTGTGCGATGGCTGCATCAGTGAAGGAGCAATCCACAAGCCAATTCCATTACCACAGTCAAC
ACCTGGCGAAGGAGATAATGATGAAGAAGATCCTTCAAATTTAAAGAGGAGCAGCATGGCATTTCAGTCACTGG
TTTGCAGAGTCCAGACAGAGATTGGGATTAGAATCTACCTTAATATCGTCAAAACCTCAGTCTCATTCACTGAG

208/2682
FIGURE 194B

TACCTCTGGGAAATCAGAGGTACGTGATCTGTTTGTGGCTGAGAGACAGTTTGCAGGAAACAACATACAGATGG
GACACTAAAGGAAGTTGGAGAAGATTATCAAAATCGCAATCCAGATTACACCTGCCTGTCTCAGAAGAACGGTG
GGCATTGGATGCACCTAAGAAATTTGGGTTTGTGAAGCAGTTGCTGGTGCAACAGCTAGGTTTGACTGAGAAGAG
CGTTCAGGAAGACTGGCAACATTTCCCAAGATACAGAACAGCCTCTCAGGGGCCGAGACAGACAGTGTATCCA
GAACTCTGAAAATATTAAGGCCTATCATTCTGGTGAAGGACATATGCCCTTTAGAACTGGAAGTGGTGACATTGC
AACTTGTACAGTCCACGGACTTCAACTGAATCTTTTGCTCCACGGGATTGAGTGGGACTGGCACCCAGGATAG
CCAGGCAAGTAACATTTTAGTAATGGACCACATGATTATGACCCAGAGATGCCCTACCATGGAGCCAGAAGGGGG
TCTTGATGACAGTGGAGAGCACTTTTTTGATGCCCGTGAAGCACATAGTGATGAGAATCCATCAGAAGGTGATGG
AGCAGTTAACAAGGAAGAGAAGGATGTTAATTTACGCATCTCAGGAACTATTTGATCCTTGATGGCTATGACCC
AGTGCAGGAGAGTTCCACAGATGAGGAGGTGCTTCCCTCACTTACCCTGCAGCCCATGACAGGCATCCCTGCTGT
GGAATCCACCCACCAGCAGCAACATTTCTCTCAGAATACTCACTCCGATGGGGCAATTTACCATTACCCCCGA
ATTTCTGGTCCAGCAGCGCTGGGGAGCTATGGAGTATTCCTGTTTTGAGATCCAGAGTCCCTCCTCTTGTGCAGA
TTCACAGAGCCAGATCATGGAGTACATTCAAGATAGAGGCTGACCTTGAACACTTAAAGAAGGTGGAGGAAAG
TTACACCATTCTTTGCCAAAGGCTGGCTGGATGAGCCCTCAGAGACAAGCACTCAGATAAAAGTTAGAGCCGCAT
GTCCTGGAGGTGACTGCAGGTTGTTGGATTGGAGTATCGGCCGTGTCTCACCACATCTGGCTCCAGTGTGGAT
GCAGAGAGAGTGTGACAGAGGATCTGCCTGTGAACCCTGGGATTAGTCAAGTCCCAAGGTGCCAGAGTGGGA
CTAGTTCTTTCAGTGTGGCAGCTGACTAATCTGTTTGTGAGGGAATATCCATTCCCTCACTCTACTCTCTCTCA
CTATCGGAAATTCATTTTGATTGAGATAAAACCAAATGTATAGAGCTTTGGGTGTAGGATATGAAATTGTACT
TAGATTTAAGAAAAAGAGAAAATCAGATGTATTTATTTGACTTCATTCCGTATTTGAAAGCACATTTTAAATTTT
ATTTGCCCTTGTTTTGTTTTAATTGAGTAGTGAGAGTTTTAGACCTTTGCTTTAGTACACCAAGGATCAACTGC
TCCTGAAGCAAAAGGTGAGGATGGAGTATGCAGAAGTTGGGTAGAGAGGTTAAGAAGAGGAGGAAGTGAGACGG
GGAAGGGAGGAGCACCTTGCTTCACTATACAGTATTCCAAGCTCTCTGCTGTCCAGTAGGCTGCTTCTCTGAGGG
TCACCTCAAAGGTATGCTATGCCGTGTGGCTCTTATGIGCCAGGTGGTGTGGTCAGAGAGTGGATGGGCTTCCT
CCCGCCTGAGGCAAGCACCTCTTCTCTGTAGCTGGGATCAACCACAATTAATAGGAATCTCAACATACTAAAT
AGCAGGCACCTTGAAAATGGGTGTGTTTTCTTCCATTGTCGTCTTTTCTATTGAGGGTTGGGATTGGGTGGGAGA
GGAAAGCAAAATTTATTTCTTGACTATAAAATTTGTTATTTCTTGGTATCATTTCATTTTATAATTATACATTAG
ACATTGACACTTGTGTAAAATGTCCCTGCAGATTGAGCAGGAAGTAAAAACAAATGGAATGCTTCGGATAGTG
GCAGGGGTGGGGGTTGCTAAGGAAAGGGTGGGATGGGAGTGGGTAAAGAGTTTGGGAAGGTTATCTAACTGAATC
ACTACTGAGTTGAATCATGGCTATCATTAGCCACAGGTACTGCTGATTATAAGGCCAGTAAATTTTAGTACCTG
GAGGTTTGACTCTAATTTTGCAGTGTGGTGCCAAAGGGCCCTGAGTCAAAGGATAGCCAAGGGTGGAGTGGGA
AAAAGATATGGTGAAGGCAGAACTGCTCACACCAGCTCCAGAAGCACGTCTCTGACTTCACTGCCGAGCTCTT
TCCACACGGGGCCGTGATTGACCCTAAAAATTGCAGACCAGCACATACACTGGACACTGCAGGCAAGGTGTTGGT
AACTGCCTGCTCTAGGATGAATAGTAGCGTTAGCAGCACCTACAGAGGGTAAGTTTCAAGATGATTTTTTACCACAAATGGT
ACTCCTTCAATTATATTGACTTTCTTTGGTTTTCTTGTGCATTAGGTATATATTTTTTGAAGTATTTTTGCCAA
CTAAATGAAGTCTGTAAATCTGTAAATAAACAAGGAGTTTATCCGTTGCTCACATCTTTTATTGGTGCCCTCT
GAACTCTGTGGGTGCTAGGATGTAATTTTATGCTTCCCTGCAGTCCAAAGATGATTTTTTACCACAAATGGT
AAGGGATGCCACCTACTTTTATAAACACCACTGCAACTTAACAAGTTTATTTATCTATGTCCAGATTTCTGTTT
CTGTCTAAATTGATCTGTGTTTTTAGGTGGATCAACTTGAATCTTTAGACCTCATCTATAAATTGAAATTATAT
TTTTAGTCATAAGCCAAGTACAATCTAACTCAGAATGGGATTAAAAATTTTAGAAGCAGAAGCTAATATATAAAT
GAAGTTTGGGATTGGAACCTTCTGTATCTCTTAGGAGGAACAAGTAAAAACCAATGGTTACATTGTGCTGCTA
GAAATAATGTCATTCTCAATTAAGGGTTACACCTGTAGCCACTTGACACTAACACCATCGAGGGCAATTAATC
AGGAGAAAAGTAAATATAAAAACTTTGCTCTTAACGTACACACTACAGGGTAATTATGTAATTCTCTAGCACTC
AATTAAGAAGCTGTAGGTTAGCAAAATTTAGTTTCTCTAGTTTCAAGCCAGTGTCTGTCTTATGTAATTTATTTG
CTTTCCCTGCAGTTCAATTTCTCTTGGAACTCTAACAGGACTAACTGGAAAAATACTTTGACCATAGCTCTAGT
ACTTCAAATAAATTCATATCTAGATTTTCAAACAAAGCCCCAAGATGAAGTCTAATTCTGAAAATATCTCACAA
TTTTTGAATGTTCTTTTTATCTTACCGACCTAATCTCTTTTCCCTCCCAACTTGGCCTCCACACGTCCATT
TCATTTTGGCCATTATAGTCACATCCGTTTGACTTTGGTTGTGACATCTTCTTTTCCAGGATGATGGAATTAGATG
CAGTCTGTCTTTGAGTGAGACTGGTCACCATCAGAGGAGTTTTTTCTAAGTGACGTGACTAGAAGTTGAAATCTA

209/2682
FIGURE 194C

CTTCCCTGCTAAAGGGCACAGGGGTGGTGTACAAAGAAAGCTACCTTCCCAGAGCAAGCAGGCTGCATTTTAGCT
ATGGAAGTGACCTGCTGTGACACTGTGCTCTCTTCTGTGGGCTTAATGGTTCCTTTGCTATGAAGTGGCAAATTA
CAIGTAGAGTGTCTCCTTCCTTTTCAGAGAACAGTTAATCAAGGCAAATCAGCAAGCCCCCAAAGTGTGTGAATT
TAACATCATGATTACCACCTTCGAAGCTATATATTTTGCATACTTTAAAATCACCTAACTTGGACTGCTTGAATT
ACATTGGCTTTTAGAACCGAAATTGTAAGTATGTATTGTATTTCATGGGAGGTATATTTTATGAGCTTTTGGCT
TTCTTTTTTCCCACAGCAACTGCCAATGAAGGATGAATCCCCCTTTTAAAAAGTTGTTGTTGTTGTTTATTT
GATTTTGTAGTTAGGAGGGATAATAGAGAAGTCCATTTAAAAATTATTTTATAGAAGCTAAAGAAAGTAATTATGCT
TCCTGTGAATTGTCTTTTACTGGCACTCTTTGTTTTCTCTTTGATGTTAGTAAATTTGGTGTAAATACGTGGGGCT
TCCATATTTCAAAGTGGAAGCTTCTTCTCTGAAGTCGATATATGGTTTTGAATTACTAGAGCTTTGGTCAGTAT
TTCCTTCCCTATATGTACAGAGGGCACCAGTGAAGTGCATAGGACCTCAAAATACAAAATTAGCAGGG
CCTCACAGTCAGCTTCTCATGGCTAGTTTTTCCCCCTTATATTACAATTTTGTATTTATAAGTCATTTTTTCC
TGATATTTCCACCACCTTTTCAGAGTCATCTACAAAATTTTCTTCTCAAGAAAAGAGTTCCTTTTGCCTTATT
CCTTATGCCTTCCCCACTGGTATTGAGGGTTTTGATAATAAATTGGTAGGAAAAAAGTACCTCCTAGAAGGAA
GCCTTCCCCACCATTTCCAGGTGCCAAGTCTAAGCAGATATATCCAAAAATGGTAAGTGCATGTGCACACTG
TTGGTTATTTTTAATAAGCCTCTTCTACTAGAACATTTTATTTTCTTGTTCACCATAAATCATGTACTCTTT
AACAGAAATTGCTTTTAAAAAATATCTGGAAGTATCTTTAAAAAACTTTATTAATAATCATGTATTTTACTGA
TCACATTTTGAATGCCTAAAAGACTTTATTGTTCTAATTATCCAGATGTACCTTTGTAAAATAGCTCTTTTATG
AATTAGCTGATAAGGCTGTATGTTTCTGGAACAAAATATTGGTCATCTAAAAACTTTCTGTTTTCTGGGGTCTGG
GAAAATAGAAAATAAGATTTCAAATATTAAATAAGCTTAAAGGAACCAAGCATGTGACTTTTACTTTGTATTCTG
GTTGATTTGTCTTGTCCAAGTTATATTAGAAAAGTTGAGGAGTCGAGGAGCCTGTAATTAATTTTCTGTCAAGT
ACTGTCAGACATCTTCTGCTTATTAGAGCATCCCTAGCAACAAGGCTAAACCTTCATGACAGTGCTGGCAGGTG
GGCTTGGCCTAGCATGTGGGGCAGGTTTTGTTGTTTTTTAATAGCTTTATTGAGATATTCACATATCATATAATT
CATCCATTTAAAGTGTATAATCAGATGGGTTTTGGTATATTATTGATTTTAAATTGTGGTGAAATATATATATAA
CAAAATTTGCTATTGTAAGTATTTTTAAGTATAAAGTTCAGTGAGGTAGGCCAGCTTTTATGACGCACCTGAAGA
TAACCTTTGGTTTTAATCCTACCCTAAATGAAGCATATGCCTCTATTTTTCTGTCCCCAGTGTGGGCTTCTTCA
CATACCAACATTTCTGTGCTTTTACCAACAGCATTTTAGCTCAGAAGGCTCGCTTACTTTGGGCATTTGCTGTAT
TTTGGTTTTGAAATACTTGTAATTTGACTTATTCTTGGGATAATATTTTAGTTTTAGTTCAGTCATTCAAGGGCACATT
TGGCTGACGGAGCTAATAAGCGTAATAAAATGCTTAGTAGTTTATACCATCTTTAGTTAAACATTTTAAAGATT
AAGACTATTCAAATGTACTTTGCGGAAATTAACCTGTTTGTATGCCTGGCTTTGTTTACAAACATATATCTATAT
CTATATATATAGATACAGATACAGATACATATCTGGTGAACAAAGAAATACCTGTACCATTCCCACTTGCTCTT
TGATAGCCACCTCCTAGGAATGGAGACAATAAACTCTGTATTGTCATGTG

210/2682
FIGURE 195

MSGTQSTITDRFPLKKPIRHGSIILNRESPTDKKQKVERIASHDFDPTDSSSKKTKSSSEESRSEIYGLVQRCVII
QKDDNGFGLTVSGDNPVVFVQSVKEDGAAMRAGVQTGDRIKVNGLTVTHSNHLEVVKLIKSGSYVALTVQGRPPG
SPQIPLADSEVEPSVIGHMSPIMTSPHSPGASGNMERITSPVLMGEENNVVHNQKVEILRKMLQKEQERLQLLQE
DYNRTPAQRLLKEIQEAKKHIPQLQEQLSKATGSAQDGAUVTPSRPLGDTLTVSEAETDPGDVLGRTDCSSGDAS
RPSSDNADSPKSGPKERIYLEENPEKSETIQDQSLVQSPSTRIAPHIIGAEDDDFGTEHEQINGQCSCFQSI
ELLKSRPAHLAVFLHHVVSQFDPATLLCYLYSDLYKHTNSKETRRIFLEFHQFFLDRSAHLKVSVPDEMSADLEK
RRPELIPEDLHRHYIQTMQERVHPEVQRHLEDFRQKRSMLTLAESELTCLDAERDKDRLTLEKERTCAEQIVAK
IEEVLMTAQAVEEDKSSSTMQYVILMYMKHLGVKVKEPRNLEHKRGRIGFLPKIKQSMKKDKEGEEKKRRGFPSI
LGPPRRPSRHDNSAIGRAMELQKARHPKHLSTPSSVSPEPQDSAKLRQSGLANEGTDAGYLPANSMSVVASGASF
SQEGGKENDTGSKQVGETSAPGDTLDGTPRTLNTVDFPPPPLDQVQEECEVERVTEHGTTPKFRKFDVAFGE
SQSEDEQFENDLETPPNWQQLVSREVLLGLKPCEIKRQEVINELFYTERAHVRTLVLDQVQYQVRSREGILSP
SELRKIFSNELEDILQLHIGLNEQMKAVRKRNETSVIDQIGEDLLTWFSGPGEKCLKHAAATFCSNQPFALMIKS
RQKKDSRFQTFVQDAESNPLCRRLLQKDIPTQMQRLLTKYPLLLDNIKYTEWPTEREKVKAADHCRQILNYVN
QAVKEAENKQRLDYQRRDLTSSKLSEYPNVEELRNLDLTRKMIHEGPLVWKNRDKTIDLYTLLEDILVLL
QKQDDRLVLRCHSKILASTADSKHTFSPVIKLTSTVLVRQVATDNKALFVISMDSNGAQIYELVAQTVSEKTVWQD
LICRMAASVKEQSTKPIPLPQSTPGEEDNDDEEDPSKLKEEQHGISVTGLQSPDRDLGLESTLISSKPQSHSLSTS
GKSEVRDLFVAERQFAKEQHTDGTLLKEVGEDYQIAIPDShLPVSEERWALDALRNLGLLKQLLVQQLGLTEKSVQ
EDWQHFFPRYRTASQGPQTDsvIQNSENIKAYHSGEGHMPFRTGTGDIATCYSPTSTESFAPRDSVGLAPQDSQA
SNILVMDHMIMTPEMPTMEPEGGLDDSGEHFFDAREAHSDENPSEGDAVNKEEKDVNLRISGNYLILDGYDPVQ
ESSTDEEVASSLTLPMTGIPAVESTHQQQHSPQNTSDGAISPFTPEFLVQQRWGAMEYSCFEIQSPSSCADSQ
SQIMEYIHKIEADLEHLKKVEESYTILCQRLAGSALTDKHSKDS

211/2682
FIGURE 196

GAGTTCCAGCAGTCCGCGAGCTGCCGTGGCTCCGCGGGGGGGCGGGCCGGGCACCCCGGGGCGCGGAGGAGCG
CTCCTCGCTTCTCTCCTTCCCCCTGCCGACTCCGCGGACCTCCCGCGGGCCCGCGCCGCTGCACTCGCCCT
CTCCTCTCGCCCCCGGCAAACTTTGGGCCCTCCCCGCCCTCGCCCGTTATTGTCGTGGCTCAAGCCCGGCC
ACGCCGCCCCAAGGGCTCCTCCGACCTCCCGGCTGCCGCTCCGGCCACTGCGGGATCCAGAAACATGTCGACC
ACACTTCTGTCCGCTTCTACGATGTCGACTTCTGTGCAAGACAGAGAAATCCCTGGCCAACCTCAACCTGAAC
AACATGCTGGACAAGAAGGCGGTGGGGACGCGTGTGGCCGCCGCCAGCTCGGGCTTCGCGCCGGGATTCTC
CGACGGCACTCGGCCAGCAACCTGCATGCACTCGCCACCCCGCGCCAGCCCGGGCAGCTGCTCGCCCAAGTTC
CCGGGCGCCGCTAACGGCAGCAGCTGCGGCAGCGCGGCGGCCGGTCCGACCTCCTACGGCACCTTAAGGAG
CCGTCCGGGGGGCGGGCAGCCCTGCTCAACAAGGAGAACAATTCGGGACCGCTCGTTTAGCGAGAACGGC
GATCGCAGCCAGCACCTCCTGCACCTGCAGCAGCAGAGAAGGGGGCGGGCGGCTCCAGATCAACTCCACGCGC
TACAAGACCGAGCTGTGCCGGCCCTTCGAGGAGAGCGGCACGTGCAAGTACGGCGAAAAGTGCCAGTTCGCGCAT
GGCTTCCACGAGCTGCGCAGCCTGACTCGCCATCCGAAGTACAAGACCGAGCTGTGCCGACCTTTTATACCATC
GGCTTCTGCCCTATGGGCGCGCTGCCACTTCATCCACAACCGGACGAGCGGGCGGCCCGCGCCGTCCGGGGG
GCCTCCGGGGACCTGCGTGCCTTTGGCAGCGCGATGCGTTGCACCTGGGCTTCCCGCGGGAGCCGCGGCCAAG
TTGACACACAGCTCAGCTTCTCGGGCTTCCCGTCGGGCCACCATCAGCCCCGGGGCGGCTCGAGTCGCGCTG
CTGCTCGACAGCCCAAGTCGCGCAGCGCGCGCCCTCCTGCTCTTCGGCCTCGTCTGCTCCTCCTCCGCC
TCTCCTGTTCCTCGGCCTCCGCGGCTCCACGCCCTCGGGCGCCCCGACATGCTGCGCTCCGCGGGCGCGCG
GCTGCGGCGCTGTGCTGTACGGCACCGGGGCGCGGAGGACCTGCTGGCGCGGGGGGCGCGTGGCGGGCTGC
TCGTGCGCCTCGTGGCCAACAACGCCCTTCGCCTTCGGTCCGGAGCTCAGCAGCCTCATCACGCCGCTCGCCATC
CAGACCCACAACCTTTGCCCGCTGGCCGCCCGCCCTACTACCGCAGTCAGCAGCAGCAGCAGCAGCAGGGCCTG
GGCCCCCGCGCAGCCCGCGCGCCAGCGCGACCTCCCGCGGGGGCGCGCACCTCCCTCGCGGCC
TTCAGCTTCCAGCTGCCGCGCGCTGTCCGACTCGCCGTGTTTCGACGCGCCCCCAGCCCCCGGACTCGCTG
TCGGACCGGACAGCTACCTAAGCGGCTCCCTGAGCTCCGGCAGCCTCAGCGGCTCTGAGTCTCCAGCCTCGAC
CCTGGCGCGCGCTGCCAATCTTCAGCCGCTCTCATCTCCGACGACTGAGGCAAGAGGGCGCCAGTGAGGAGG
AAGGGAAGCGGTTTCAGAGATGTTGGAGGACACCCCTCGCCATCTCGCCCTTGTGGGGGACGGGAGTGGGGG
GGTGACATGGGCCCTAGGCAGACTGCAAGCCGACCGAGCACTTGGACTCGAACTCTGTGCCGGAGGGGCCCC
ACCCCTCCTTTTTCGGTTTCTTGTCTTTTTTTTTTTTATTATACGAAGTTTATTCTTTTTGAGCAAAA
AAGTCGAACCTTTTTCTGTTGAACAAAATATTCACAACAGGGCAGTTGTGATACGAATAGAACAAAAAAAAA
AAACACTTAACTTTGTTAGGACTCCGATGAGTTGGGACTTCAGGAAAAATCAACCCAGCACCAGCAGCTACCA
ACCACCATTCATCTCTTCACTTGAACAGCATTAGTTAAGTCCAGATGTGGGAACCCCTTCTCTTGAAGAAGTTC
CTAATTGTCTCAGACCGGTGTAAACAAACCAGCCAGCGCCACCTTGCTAAACCTATAAGCTTTTAAATCC
AATATATTTCGCAAGAATATGCCTTGATAGTTAGCCCTCAGCCCATAGGTGTTTTTGTTTTTTAAAGAATTA
TATATGTCTGGGGGTGAAAAACCCCTTGCAATCCAAAGGTCCATACTGGTTACTTGGTTTCATTGCCACCACTTA
GTGGATGTTCAAGTTTGAACCATTTTGTCTGCTCCCTCTGGAAGCCTTGCGCA

212/2682
FIGURE 197

MSTILLSAFYDVDFLCKTEKSLANLNLNNMLDKKAVGTPVAAAPSSGFAPGFLRRHSASNLHALAHPAPSPGSCS
PKFPGAANGSSCGSAAAGGPTSYGTLKEPSGGGGTALLNKENKFRDRSFSENGDRSQHLLHLQQQQKGGGGSQIN
STRYKTELCRPFEESGTCKYGEKCQFAHGFHELRLTRHPKYKTELCRTFHTIGFCPYGPRCHFIHNADERRPAP
SGGASGDLRAFGTRDALHLGFPREPRPKLHHSLSFSGFPSGHHQPPGGLESPLLLDSPTSRTPPPPCSSASSCS
SSASSCSSASAASTPSGAPTCCASAAAAAALLYGTGGAEDLLAPGAPCAACSSASCANNAFAFGPELSSLITP
LAIQTHNFAAVAAAAYYRSQQQQQQGLAPPAQPPAPPSATLPAGAAAPPSPPFQLPRLSDSPVFDAPPSP
DSLSDRDSYLSGSLSSGSLSGSESPSLDPGRRLPIFSRLSISDD

213/2682
FIGURE 198A

CAGATTACGAGGTTCTGTTCTAGTGCCAAAGGCTCTTGGTAGTAAATAGTGAGCAAAATAGATACCTGTCTCCT
GATGGATCTTGCCAGCCCNCTCCTATTTTTNTTAAAGTTATTTATTAACACACACACCTTGCAAAGAAAA
GGGAACTGGCAGTCTCTGTAGAGGAAGCCGGTGGCATCGCTCAGAGCCACAACTGTATTTCTAAACAGCCCTT
TCCCTGGTTCCCTCTCTCCTGCCCCACTTTTTTAAATCCAGACTGTAAAAAACACATCTACTGACACTCACTT
TACTTAAAAAAGAAGAGAAAAAGTAAAGCGTTACAAGACTTTCCTCCTGAAACTATAAACTGAAAAAAAAT
CCATAAAAGATTAAATCCTGGCGGGTTGTGGGGTGGCGGGGCGCGGGGAGGGGGCGCGGAGTGGAGATTGGC
TCTCTGAGGTGGTCAGGGGCCCTGTGACAGCTTGGGACTTTCAGCACCTGGTTTGGGGTCATTATCTGCTCAAC
TGTCAGGACCCCCACCCCAAACCCAGCCACCAACACAACCATCGTAGAAGGGAACACAACACAGAGGGTCTT
TTTTCATTTTTTAAAAAATCGGTTTGGTTGTGTTTTTGTTCATGGGGGAGCTTTAAACTCATTATTGCAA
CACTAGTTCCATTTTTTCGCCAGGGTTCCAATAACACGGCATCATAAAGGCAACGCAACCCACAGTTCTCAAGACA
TTTACCACGGTCACTACATCCGGCAGCGGGTGGCCCCCTAGCTCCTGCTGCCCCCGCCCTTTCTCCCCGCGCG
CCCCGGAGCTCAGCCGATTCTGAGGCTCCAACTCTACCCACTCCCTCCCCGGGCGCGCGCGCGCCTTCC
CCCATCTTACTCCCTCGAGGAGAGCCACAGTTGCAAAATCCAACCAACCTCGCAATCTATTTTTGCAAAATCAC
TCACAAAGATCTCCCTTTTCGCGCCCGCGCCGCTCCTCCCGCGCGGGTCCCCTCAGCCACGGCCACAAAGTGCC
CTTCTCTCCTCCTGAGTCTTGACATAAGGAACGCGGGCTGGGGCTCTGTTCTGTTCTTCTCCTCGCCCAAGGTAA
GGACCTCGGGAATCTGAAGCCTGGCGTCCACTACGCTCAGGCCCGCAGTTCCCTTTTACAGAGCTTGCAACATG
GGAAAAATAAAATAAAATTTAGGAAAGGGAGGCAACAGCCATTGGGAGCCAACACAGAGTCACGCAGCGCCAA
AATACAAACACCGCAGCGCCAGAAATCCCGCCACCTTTCTCGTTCTCCAGGCTGTCTGTGAGGTTCCCTGA
GTCCCCCGCAGCTGAAAGGCATCGCAGGTGAGTGCACACCCCTTTCCACCCACCCCAAGAAGCCCTGTCCC
GCCATCAGTCTCTCTCCTCGGGATGAGCAGGGAGAGCGCGCGGAGGTTCCCGACTCCCTCGACTACAACCAAGAA
AGAATAATTTTTCAAAGTGTTCAACATCCCGCCCCCAAGCTCCCCAAAACACAGGGGCAGGGAACACCAAAACAC
TCGGCTCTCGTTAGGAAGATCACGGCTCTGAAAGGAAATAGTAGACACGATACTTCATCTCATCTGGATTATGA
CCAAAAAACAACAAACAAACCCAAAGAGTTGCTTGCATTTTTTCTTCCAAATCTCGGTTGCGCTCGAAGGC
AGGGAATCTAAAAGACCGAGGCCGATGGAAGAGAGCCAGCGGGGCGAGCGAGCGGGCAGCCTCCCTTTTTGCCTC
CCGGAGTCACCCGTTATTCTGTCGTGCTCAAGCCCGGCCACGCGGCCCAAGGGCTCCTCCCGACCTCCCGGCCCT
GCCGCTCCGGCCACTGCGGGATCCAGAAACATGTCGACCACACTTCTGTCCGCTTCTACGATGTCGACTTCTTG
TGCAAGACAGAGAAATCCCTGGCCAACTCAACCTGAACAACATGCTGGACAAGAAGGCGGTGGGGACGCTGTG
GCCGCCGCCCCAGCTCGGGCTTCGCGCCGGGATTCTCCGACGGCACTCGGCCAGCAACCTGCATGCACTCGCC
CACCCCGCGCCAGCCCGGCAGCTGCTCGCCCAAGTTCGGGGCGCGCTAACGGCAGCAGCTGCGGCAGCGCG
GCGGCCGGCGGTCCGACCTCTACGGCACCTTAAGGAGCGCTCGGGGGCGCGGCACAGCCCTGCTCAACAAG
GAGAACAAATTCGGGACCGCTCGTTTAGCGAGAAGCGGATCGCAGCCAGCACCTCCTGCACCTGCAGCAGCAG
CAGAAGGGGGGCGCGGCTCCAGATCACTCCACGCGCTACAAGACCGAGCTGTGCCGGCCCTTCGAGGAGAGC
GGCACGTGCAAGTACGGCGAAAAGTGCCAGTTGCGCATGGCTTCACGAGCTGCGCAGCCTGACTCGCCATCCG
AAGTACAAGACCGAGCTGTGCCGACCTTTCAATACATCGGCTTCTGCCCTATGGGCCGCGCTGCCACTTCATC
CACAAACCGGACGAGCGCGGCCCGCGCCGTCGGGGGGCGCCTCCGGGGACCTGCGTGCTTTGGCACGCGCGAT
GCGTTGCACTGGGCTTCCCGCGGAGCCGCGGCCAAAGTTGACCAACAGCCTCAGCTTCTCGGGCTTCCCGTCG
GGCCACCATCAGCCCCGCGCGGCTCGAGTCGCGCTGCTGCTCGACAGCCCCACGTGCGCACGCGCGCGCGG
CCCTCCTGCTTTCGGCTCGTCTCTCTCTCCTCGCCTCCTCTGTTCTCGGCTTCCCGGCTTCCAGGCC
TCGGGCGCCCCGACATGCTGCGCCTCCGCGGCGCGCGGCTGCGGCCGCTCTGCTGTACGGCACCGGGGGCGCC
GAGGACCTGCTGGCGCGGGGGCCCCGTGCGCGGCTGCTCGTGGCCTCGTGGCCAACAACGCTTTCGCTTC
GGTCCGGAGCTCAGCAGCCTCATCACGCGCTCGCCATCCAGACCCACAACCTTTCGGCGCTGGCCGCCCGGCC
TACTACCGCAGTCAGCAGCAGCAGCAGCAGGCGCTGGCGCCCCCGCGCAGCCGCGCGCGCGCCAGCGCG
ACCTTCCCGCGCGGGGCGCGCACCTCCCTCGCGCCCTTCAGCTTCCAGCTGCGCGCGCGCTGTCCGACTCG
CCCGTGTTCGACGCGCCCCCAGCCCCCGGACTCGCTGTGCGACCGGACAGCTACCTAAGCGGCTCCCTGAGC
TCCGGCAGCCTCAGCGGCTCTGAGTCTCCAGCCTCGACCCTGGCCGCGCGCTGCCAATCTTCAGCGCCTCTCC
ATCTCCGACGACTGAGGCAAGAGGGCGCCAGTGAGGAGGAAGGAAGGCGGTTAGAGATGTTGGAGGACACCCC
TCGCCATCTCGCCCTTGTGAGGGCACGGGAGTGGGGGGGTGACATGGGCCCTAGGCAGACTGCAAGCCGACC
GAGCACTTGGACTCGAACTCTGTGCCGGGAGGGGCCCCACCCCTCCTTTTTCGGTTTCTCTTGTCTTTTTT

214/2682

FIGURE 198B

TTTATTTTATTACGAAGTTTCATTCTTTTTGAGCAAAAAAGTCGAACTTTTCTGTTGAACAAAATATTCACAA
CAGGGCAGTTGTGATACGAATAGAACAAAAAGAAAAAAAACACTTAACTTTGTTAGGACTCCGATGAGTTT
GGGACTTCAGGAAAAATCAACCCAGCACCAGCAGCTACCAACCACCATTCCATCTCTTCACTTGAACAGCATTAG
TTAAGTCCAGATGTGGGAACCCCTTCTCTTGGAGAAGTTCCATAATTGTGTCTCAGACCGGTGTAAACAAACCAGC
CAGCCGCCACCTTGCTAAACCTATAAGCTTTTTAAATCCAATATATTCTGCCAAGAATATGCCTTGATAGTTAG
CCCTCAGCCCATAGGTGTTTTTGTTTTTTAACAGAATTATATATGTCTGGGGGTGAAAAAACCCCTTGCAATCCA
AAGGTCCATACTGGTTACTTGGTTTCATTGCCACCACCTTAGTGGATGTTTCAGTTTGAACCATTTTTGTCTGCTCC
CTCTGGAAGCCTTGCGCAGAGCTTACTTTGTAAATTGTTGGAGAATAACTGCTGAATTTTTAGCTGTTTTGAGTTG
ATTGCGACCACTGCACCACAACCTCAATATGAAACTATTTAACTTATTTATTATCTTGTGAAAAGTATACAATGA
AAATTTTGTTCATACTGTATTTATCAAGTATGATGAAAAGCAATAGATATATATTCTTTTATTATGTTAAATTAT
GATTGCCATTATTAATCGGCAAAATGTGGAGTGTATGTTCTTTTACAGTAATATATGCCTTTTGTAACTTCACT
TGGTTATTTTATTGTAAATGAGTACAAAATCTTAATTTAAGAGATTGTATGTAATATTTATTTTATTAAATTTCT
TTCCTTGTTTTACGTAAATTTTGAAAGATTGCATGATTTCTTGACAGAAATCGATCTTGATGCTGTGGAAAGTAGTT
TGAGGAACATCCTATGAGTTTTCTTAGAATGTATAAAGGTTGTAGCCCATCCAACCTCAAAGAAAAAATGACCA
CATACTTTGCAATCAGGCTGAAATGTGGCATGCTTTTCTAATTCCAACCTTTATAAACTAGCAAAAAAGTGTTCG
TTATTCCACCACTTCTACTGTGACATACTCGAGTATAAAGACATGTAGCAATAACGGGGAGTGGGGGGGAGTCT
CACAGTGCCTTTGGAAGGGCCGAACCTTGCCTTAAATCTTCTCAACCAATAAGTATTTTATTAGTGCTTGAGA
GAATCTGAATGTAGGATGGGTTCACTGCACAAAAGGAAAAGATTTTACCACCTTTTTTATATAGATATAAAGT
GAAGCAACCGCCTTAGTGCTGAAATATGTAGTACATGAATATGCCTTGTTTAAATTACAGAAAAATCCAAAACCTG
TACTATTTTTTTTTTCCATGTAGAAAGGCAGGAATGTCTCCTAAGCTTTCTTGACAGCAGATGAATGAGCGGTA
GCTTAGTTTGTACGTAGGTACAGTTGGAGCACTATATGTACTCTCTGGACTACTTTGGACAGAAGTAGGTTTTT
GAATGTAACAAGATAAGTCAACTTGAGTTGTAATATATTTTGGGGAATCAGCTCACTACAAATTGTGACTGTAAA
CATTGTACTGTAAATGTTTTGTAGTTTTCCCCCAATAAAATTTTTGGGAAAAAAGGTATTAACATGTAAGAGCT
TTCTTTTTAAACAGGAATGTCTTAGCTTTCTAGCTTCCAGCTAACCATGTCTGCCATTCCCCAGGTCTTGGCAT
GGTGGGGGAGGACTTGAGAGCTGGCAGAGCCAGAGTTCAGAAGAGCCTGCGTCCTCTCAGCCCGTATATATTTT
ATAAGCAAGTTCTTCTAATGAAAGAAAGTAATTATTTGGACTGTCAAGGGCATTAGTT

215/2682
FIGURE 199

MEESQGERAGSLPFCLPESFVIRRGSSPATPPQGLLPTSRPAAPATAGSRNMSTLLSAFYDVDFLCKTEKSLA
NLNLNNMLDKKAVGTFVAAAPSSGFAPGFLRRHSASNLHALAHPAPSPGSCSPKFPGAANGSSCGSAAAGGPTSY
GTLKEPSGGGGTALLNKENKFRDRSFSENGDRSQHLLHLQQQKGGGSQINSTRYKTELCPFEESGTCKYGEK
CQFAHGFHELRSLTRHPKYKTELCRTFHTIGFCPYGPRCHF IHNADERRPAPSGGASGDLRAFGTRDALHLGFPR
EPRPKLHHSLSFSGFPSGHHQPPGGLESPLLLDSPTSRTPPPPSCSSASSCSSSASSCSSASAASTPSGAPTCCA
SAAAAAALLYGTGGAEDLLAPGAPCAACSSASCANNAFAFGPELSSLITPLAIQTHNFAAVAAAAAYRSQQQ
QQQLAPPAQPPAPPSATLPAGAAAPPSPPFQQLPRRLSDSPVFDAPPSPDLSLDRDSYLSGSLSSGSLSGSE
SPSLDPGRRLPIFSRLSISDD

216/2682
FIGURE 200

GTCTGGAAGCAGGACTGCGCCGCTCTTCTCAAGGTGGGGTTTCGGGGGGCCACCGAATCGCTGTACGCCGGC
AGGTTGAGAACAAAAACATGCACCTGGAGTTTCCCCGGAGCCCTCTGCGTGTTGAGCTTCGGTGGAATTCGGG
GCTCTTGGCTGCCAGCCGCGCTTGCTGGTAGCAACAGAAACAGTCCTGCTCTCCTCCGTGGACATTTTCATTAC
CATCCAGAAGTGTCTCCCACTGAAGGCATCCGTGGTTGTTTTTAAGCCACAAAAAGCCACACCCAAGATCACCT
GACACCCACCCTGACAAGTGTCCATGATGCTGGGCCCTGAGGGAGGTGAAGGCTTTGTGGTCAAGCTCCGTGGCC
TGCCCTGGTCTGCTCTGTTGAGGACGTGCAGAACITCTCTGACTGCACGATTTCATGATGGGGCCGCAGGTG
TCCATTTTCATCTACACTAGAGAGGGCAGGCAGAGTGGTGAAGCTTTTGTGAAGTTGGATCAGAAGATGATGTAA
AAATGGCCCTGAAAAAGACAGGGAAAGCATGGGACACCGGTACATTGAGGTGTTCAAGTCCCACAGAACCAGAGA
TGGATTGGGTGTTGAAGCACAGTGGTCCCAACAGTGCCGACAGCGCCAACGATGGCTTCGTGCGGCTTCGAGGAC
TCCCATTTGGATGCACAAAGGAAGAAATTGTTTCAGTTCTTCTCAGGGTTGAAATTGTGCCAAACGGGATCACAT
TGCCCTGTGGACCCCGAAGGCAAGATTACAGGGGAAGCGTTTCGTGCAGTTTGCCCTCGCAGGAGTTAGCTGAGAAGG
CTTAGGGGAAACACAAGGAGAGGATAGGGCACAGGTACATTGAGGTGTTTAAGAGCAGCCAGGAGGAAGTTAGGT
CATACTCAGATCCCCCTCTGAAGTTTCATGTCCGTGCAGCGCCAGGGCCCTATGACCGGGCCGGGACTGCCAGGA
GGTACATTGGCATCGTGAAGCAGGCAGGCCTGGAAAGGATGAGGCCTGGTGCTACAGCACAGGCTACGGGGGCT
ACGAGGAGTACAGTGGCCTCAGTGATGGTACGGCTTACCACCGACCTGTTTCGGGAGAGACCTCAGCTACTGTC
TCTCCGGGATGTATGACCACAGATACGGGCACAGTGAGTTACAGTGACAGAGCACCACAGGCCACTGTGTCCACA
TGAGGGGCTTCCGTACAAAGCGACCGAGAACGACATTTACAACCTTCTTCTCTCTCAACCTGTGAGAGTCC
ATATTGAGATTGGCCCATGGAAGAGTGACGGGTGAAGCAGATGTTGAGTTTGCTACTCATGAAGAAGCTGTGG
CAGCTATGTCCAAAGACAGGGCCAATATGCAGCACAGATATATAGAATCTTCTTGAATTCAACAACAGGGGCCA
GCAATGGGGCGTATAGCAGCCAGGTGATGCAAGGCATGGGGGTGTCTGCTGCCCAGGCCACTTACAGTGGCCTGG
AGAGCCAGTCAGTGAGTGGCTGTTACGGGGCCGGCTACAGTGGGCAGAACAGCATGGGTGGCTATGACTAGTTTT
GTTAGGAACATTTGAGTTACTTCAATCATTTTTCACAGGCAGCCAACAAGCAATTAAGAGCAGTTATAATAGAGGA
AGCTGGGGGACCCATTTTGCACCATGAGTTTGTGAAAAATCTGGATTAAAAAATTACCTCTTCAGTGTCTTCTCA
TGCAAAATTTTCTTCTAGCATGTGATAATGAGTAAACTAAACTATTTTCAGCTTTTCTCAATTAACATTTTGGT
AGTATACTTCAGAGTGATGTTATCTAAGTTTAAAGTAGTTTAAAGTATGTTAAATGTGGATCTTTTACACCACATCA
CAGTGAACACACTGGGGAGACGTGCTTTTTTGGAAAACTCAAAGGTGCTAGCTCCCTGATTCAAAGAAATATTTT
TCATGTTTGTTCATTCTAGTTTATATTTTCAATTTAAATCCTTTAGGTAAAGTTTAAAGCTTTTTTAAAGTTAGTT
TTGAGAATTGAGACACAATACTAATACTGTAGGAATTGGTGAAGCCTTGAATTTAAACTTTTCTTTGTACTGTGAT
TTCTTTTGGGTGTATTTTGTAAAGTGAAGTTTAAATTTTGTAACTAAATTTTTTCTTAAATAAAGA
CTTTTTCACAATGACTGGCACAGATTACTCAGCAAAAGATAGCAAAACGGGTGGTTGAAGATAATTCAATTTAAT
CGTAATGTATTTTAGTGTGAATTTAAAAATTTTATACATCAAATCTATGATCTCCCTTATATTCTTATGATGAGG
CTAAATAAAGTCTAATAAAAAATGTAAATATGTGAATGGTGAAGTGGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG
CATCAATAGACACACGGCCCCAGCCACCTGCAACTTATGTGCACTGTGTAAACCATTGAGAAATTTCTGCTA
GGCCCTTGATGCTGGAGTCACATCTGTTGATAGCTGGAGAATTTAGTTTCAAGTACTACATTGTGAAGCAATT
ATTTTGTCTCGTTTTTATAAAATGCTGACTTAACTTTT

217/2682

FIGURE 201

MMLGPEGGEGFVVKLRGLPWSCSVEDVQNFLSDCTIHDGAAGVHFIYTREGRQSGEAFVELGSEDDVKMALKKDR
ESMGHRYIEVFKSHRTEMDWVLKHSGPNSADSANDGFVRLRGLPFGCTKEEIVQFFSGLEIVPNGITLPVDPEGK
ITGEAFVQFASQELA EKALGKHKERIGHRYIEVFKSSQEEVRSYSDPPLKFMSVQRPGPYDRPGTARRYIGIVKQ
AGLERMRPGAYSTGYGGYEEYSGLSDGYGFTTDLFGRDLSYCLSGMYDHRYG DSEFTVQSTTGHCVHMRGLPYKA
TENDIYNFFSPLNPVRVHIEIGPDGRVTGEADVEFATHEEAVAAMSKDRANMQHRYIELFLNSTTGASNGAYSSQ
VMQGMGVSAQA TYSGLESQSVSGCYGAGYSGQNSMGGYD

218/2682

GGCACAGGCGCATGGAGCCGCGGGCGCGGGGGCGGGGGCGGGGGCGCTGCTAGCGCTGCTGTGCGTGGCCTGCGCGCTGC
GCGCCGGGGCGCGCCCAATACGAACGCTACAGCTTCCGAGCTTCCACGGGACGAGCTGATGCCGCTCGAGTCGG
CCTACCGGCACGCGCTGGACAAGTACAGCGGCGAGCACTGGGCGGAGAGCGTGGGCTACCTGGAGATCAGCCTGC
GGCTGCACCGCTTGCTGCGCGACAGCGAGGCCCTTCTGCCACCGCAACTGCAGCGCGCGCGCGCAGCCCGAGCCCG
CCGCGGGCCTCGCCAGCTATCCCGAGCTGCGCCTCTTCGGGGGCGCTGCTGCGCCGCGCGCACTGCCTCAAGCGCT
GCAAGCAGGGCCTGCCAGCCTTCCGCCAGTCCAGCCAGCGCGAGGTGCTGGCGGACTTCCAGCGCGCGGAGC
CCTACAAGTTCCTGCAGTTCGTTACTTCAAGGCAATAATCTCCCCAAAGCCATCGCCGCTGCTCACACCTTTC
TACTGAAGCATCCTGATGACGAAATGATGAAGAGGAACATGGCATATTATAAGAGCCTGCCTGGTGCCGAGGACT
ACATTAAAGACCTGGAACCAAGTCATATGAAAGCCTGTTTCATCCGAGCAGTGCGGGCATACAACGGTGAGAACT
GGAGAATCCATCAGACAGATGGAGCTGGCCCTTCCCGACTTCTTCAAAGCCTTTTACGAGTGTCTCGCAGCCT
GCGAGGGTTCCAGGGAGATCAAGGACTTCAAGGATTCTACCTTTCCATAGCAGATCATTATGTAGAAGTTCTGG
AATGCAAAATACAGTGTGAAGAGAACTCACCCAGTTATAGGAGGCTATCCGGTTGAGAAATTTGTGGCTACCA
TGTATCATTACTTGCAGTTTGCTATATAAGTTGAACGACCTGAAGAATGCAGCCCCCTGTGCAGTCAGCTATC
TGCTCTTTGATCAGAAATGACAAGGTCTATGCAGCAGAACTGGTGTATTACCAGTACCACAGGGACACTTGGGGCC
TCTCGGATGAGCACTTCCAGCCCAGACCTGAAGCAGTTCAGTTCCTTTAATGTGACCACACTCCAGAAGGAGCTGT
ATGACTTTGCTAAGGAAAAATATAATGGATGATGATGAGGGAGAAAGTTGTGGAATATGTGGATGACCTCTTGGAA
TGGAGGAGACCAGCTAGCCCACAGCAACCAAGAGACTTCTCTTGCGGTTTCAGGAAACACAGATTCTTTGTCTT
TTTCCCAACAGCCCAGGCTGTTGATACCTCAGAGCCTTCTCTTTACTCTCCAAAGTGAAAGGGAAGCCCCGCTC
CTCTAACTGCATGTCATCAGGGGTGAGCCTGCCTTTCTCTATCTTCACACCTGCCACCTCATGTTTCACACCTATCT
TTCTCACCTTTTTTTTGTAGATGGAGTCTCGCTCTCTTGCCAGGCTGGAGTGCAATGGCACGTTCTCAGCTCACT
GCAACCTCCGCCCTCTTGGGTTCAAGCAATTCTGCTGCATCAGCCTCCCGAGTACCTGGGATTACAGGCATGTGCC
ACCACGCCCGGCTAATTTTGTATTTTTAAGTAAGAGACGGGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAACTC
TTGACTTCAGATGATCCATCTGCCTTGGGCCTCCACAGTCTGGGATTACAGGCGTGAGCCACCATGCCCGGCC
TCTTTCTCACCTTTACACCTGTCTTCTTATCCTCACATCTGTTTTACACCTTCATCCCTGTCTTCTCATGTTT
ACACTTGTCTTCCCCATGTTTCATAGCTGCCTTTCTTACCATTTTGGTTTTGAAGGGCAGTCTTCTCTGGCTTGTTT
TTTTGTTTTTCCAGAAAATCAGTATTATTTTTTAAATAAGAAAAACATTCTAGAAGATGATAATTGTGAAAAC
CTCCTTTGGCTTATTTGCTTTTCCAGATTTTAGTCTCCTTTCTCCCCATCCGGGAAAGATGGTGAAGACATAGG
CTAAATTTCTCCAGCCTCACAATGGTCTTCACCTTGGTCTGACTTGTACCAATTCTAGCACCCTGAAAAACAAG
TTGAGTAGAGAGTGTAGAGTGCAGAAATGTGGCTTTTGCCCACTTTGCATCTCCAAAATTACAACGGTTGGCCG
ATCCCATTTGAGGACAATGCTTAGTTATAAGTCTCCGAGTTGGAAAAGGAAGAAAGCCAGAGCTGTCTAGTTTCA
TTCATTCTTTTCTAGTAAATATTTATTGAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

219/2682

FIGURE 203

MEPGRRGAAALLALLCVACALRAGRAQYERYSFRRSFRDELMPLESAYRHALDKYSGEHWAESVGYLEISLRRLHR
LLRDSEAFCHRNCSAAPQPEPAAGLASYPELRLFGGLLRRAHCLKRCKQGLPAFRQSQPSREVLADFQRREPYKF
LQFAYFKANNLPKAIAAAHTFLKHPDDEMMKRNMAYYKSLPGAEDYIKDLETksYESLFIRAVRAYNGENWRTS
ITDMELALPDFFKAFYECLAACEGSREIKDFKDFYLSIADHYVEVLECKIQCEENLTPVIGGYPVEKFVATMYHY
LQFAYYKLNDLKNAAPCAVSYLLFDQNDKVMQQNLVYYQYHRDTWGLSDEHFQPRPEAVQFFNVTTLQKELYDFA
KENIMDDDEGEVVEYVDDLLELEETS

220/2682
FIGURE 204

CTCGTCGCCGCCGCCATTTTAGCTGTTGGTTCCGGCCGACCGTGTGGGCTGTAGTAGCGGGAGGGGTGGGGTTC
CTCCAGAGTTAAGTGGCTGTCTCGACTGTGCCATACAGCAGCCAGCTTTCTTCTTAATAACTGCCCGTTCGA
AGAGTGGGAGGATGTCCTCAAGCGGCACCGGTTGGACCTAGGGGAGGATTACCCCTCTGGCAAGAAGCGTGCGGGGA
CCGATGGGAAGGATCGAGATCGAGACCGGGATCGTGAAGATCGGTCTAAAGATCGAGACCGAGAACGTGATAGAG
GAGATAGAGAGCGAGAGAGGGAGAAAGAAAAGGAGAAGGAGTTGCGAGCTTCAACAAATGCTATGCTTATCAGTG
CTGGATTACCACCCCTGAAAGCTTCCCATTCAGTCACTCAACCCACTCAGCACATTCAACGCATTCTACACATT
CTGCTCATTCAACGCATGCCGACATGCAGGTACACGTCACCTTCCACAGTGCATTAAATCCGTTTACCAACTTAC
CCCATACTCCTCGATACTATGATATTCTAAAGAAACGTCTTTCAGCTCCCTGTTTGGGAATACAAGGATAGGTTTA
CAGATATTCTGGGTAGACATCAGTCTTTGTACTGGTGGTGAGACTGGGTCTGGTAAACAACACAAATTCCAC
ACCGGTGTGTGGAGTACATGCGATCATTACCAGGACCCAAGAGAGGAGTTGCCTGTACCCAACCCAGGAGAGTG
CTGCAATGAGTGTGGCTCAGAGAGTTGCTGATGAGATGGATGTGATGTTGGGCCAGGAAGTTGGTTACTCCATT
GATTTGAAGACTGCAGTAGTGCAAAAACATTTTTATGTATATGACTGATGGGATGTTACTTTCGTGAAGCTATGA
ATGATCCCTCCTGGAGCGTTATGGTGTAAATCTTTCAGTGGCTCATGAGAGGACACTGGCTACAGATATTC
TAATGGGTGTTCTGAAGGAAGTTGTAAGACAGAGATCAGATTTAAAGGTTATAGTTATGAGCGCTACTCTAGATG
CAGGAAAATTCCAGATTACTTTGATAACTGTCTCTCTAACTATTCTGGGCGTACACATCCTGTTGAGATCT
TCTATACTCCAGAACCAGAGAGAGATTATCTTGAAGCAGCAATTTCGAACAGTTATCCAGATTATATGTGTGAAG
AGGAAGAGGGAGATCTTCTTCTTTTCTTAACTGGTCAAGAGGAAATTGATGAAGCCTGTAAGAGAATAAAGCGTG
AGCAACGCATTTTGGAGCCTCCACCTCCCAAAAAACAGAATGGAGCAATTGGAAGAAAGGTAGTTGTGTCAACTA
ACATAGCAGAGACGTCTTTGACAATAGATGGTGTGGTGTGTTGTGATTGATCCTGGATTGCGAAACAGAAGGTCT
ACAATCCTCGAATCAGAGTTGAGTCCCTTTTGGTGACAGCTATTAGTAAAGCTTCAGCTCAGCAAAGGGCTGGTC
GAGCTGGAGCTACCAGACCTGGAAAATGCTTCAGACTTTACACAGAGAAAGCTTATAAAACAGAAATGCAGGATA
ACACCTATCCTGAGATTTTGGCTTCTAATTTAGGATCAGTTGTGTTACAATTGAAGAACTTGGTATTGATGACT
TGGTACATTTTGAATTTTATGGATCCACCAGCTCCTGAAACTCTGATGAGAGCCCTGGAATTTTGAATTACCTGG
CTGCTTTAAATGATGATGGAGATCTGACTGAATTGGGATCCATGATGGCAGAGTTTCTCTAGATCCACAGCTCG
CAAAAATGGTTATTGCAAGTTGTGACTACAACGTCTTCTAATGAGGTCTCTATCTATTACTGCTATGTTGTGCTGCTC
CAGAGTGTGTTTGTGCCCCACGGAGGCCAAGAAAGCCGAGATGAGGCCAAGATGAGATTGCCCCACATAGATG
GAGATCATCTGACACTGCTGAACGTCTACCATGCTTTTAAACAAAATCATGAATCGGTTTCAAGTGGTGTATGACA
ACTTCATTAACTACAGGTCCCTGATGTCCGCGGACAATGTACGCCAGCAGCTATCTCGAATTATGGACAGATTTA
ATTTGCCTCGTGAAGTACTGACTTTACAAGCAGGGACTATTATATTAATAAGAAAAGCTTTGGTTACTGGGT
ATTTTATGCAGGTGGCACATTTAGAACGAACAGGGCATTACTTAACTGTGAAAGATAACCAGGTGGTTCAGTTGC
ATCCCTCTACTGTTCTTGACCACAAACCTGAATGGGTGCTTTATAATGAGTTTGTCTAACAACAAGAATTACA
TCCGGACATGTACAGACATCAAGCCAGAATGGTTGGTGAAAATTGCCCTCAATATTATGACATGAGCAATTTCC
CACAGTGIGAAGCAAAGAGACAGTTGGACCGCATCATTGCCCAAACCTCAATCCAAGGAATATTCACAGTACTGA
ATTCAGTGCTTAGAACTGAAGTTATTGAGAGGACAGCTTTAAAGATGAATGAAGTCAAAAGTTCGAGTTGTGCT
CTTCACGTTGGTTCGATAATGGCCTTTATTTGAAAGCTTTTAAATTTTCTTTACAGTAAATATTCATTCTGAT
TTCATAAAATTAACATTTATGCCTCCCTTTTGTGTTGACACTGTAGCTCATACTGGAAAAGTCGATCAATGTTTT
GCAGTTTATTGAAAGTAGTTCTATATATAACAATGTTATAAGCATTCTTTAGAAATGGTTGAAAATGCTTCTAA
AATGTGATTATCGACCATGGTATGCATGATCGTTGTAATTGTTGACATTCTTTTGAAGTTGTGAAATGTTACA
ACTTGTGCTTATGTAGACACAATTTTTTGTGTTTCACTACCAGGCACTGACTTCAATAAAGTTTATTTATACGGA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

221/2682
FIGURE 205

MSKRHRDLGDGEDYPSGKKRAGTDGKDRDRDRDRDRSKDRDRDRDRGRDREREREKEKEKELRASTNAMLISAGLPLKASHSAHSTHSAHSTHSTHSAHSTHAGHAGHTSLPQCINPFTNLPHTPRYDILKKRLQLPVWEYKDRFTDILGRHQSFVLVGETSGSKTTQIPHRCVEYMRSLPGPKRGVACTQPRRVAAMSVAQORVADEMDVMLGQEVGYSIRFEDCSSAKTFFMYMTDGMLLREAMNDPLLERYGVIILDEAHERTLATDILMGVLKEVVRRQSDLKVI VMSATLDAGKFIYFDNCPLLTIPGRTHPVEIFYTPEPERDYLEAAIRTVIQIHMCEEEEGDLLLFTLGQEEIDEACKRIKREVDDLGPEVGDIKIIPLYSTLPPQQQRIFEPPPPKKQNGAIGRKVVSTNIAETSLTIDGVVFVIDPGFAKQKVYNPIRVESLVT AISKASAAQQRAGRAGRTRPGKCFRLYTEKAYKTEMQDNTYPEILRSNLGSSVLQLKKLGIDDLVHFDMDPPAPETLMRALELLNYLAALNDDGDLTELGSMAAEFLDPQLAKMVIASCDYNCSNEVLSITAMLSVPQCFVRPTEAKKADEAKMRFAHIDGDHLTLLNVYHAFKQNHESVQWCYDNFINYRSLMSADNVRQQLSRIMDRFNLPRSTDFTSRDYYINIRKALVTGYFMQVAHLERTGHYLTVKDNQVVQLHPSTVLDHKPEWVLYNEFVLTTKNYIRCTDIKPEWLVKIAPQYYDMSNFPQCEAKRQLDRIIAQTSIQGIFTVLNSVLRTTEVIERTALKDE

222/2682
FIGURE 206

GAATTCGCGGCCGCTGGTTTGCAGCTGCTCCGTCATCGTGCGCCCGACGCTATCTCGCGCTCGTGTGCAGGCCC
GGCTCGGCTCCTGGTCCCCGGTGCGAGGGTTAACGCGAGGCCCGGCCCTCGGTCCCCGGACTAGGCCGTGACCCC
GGGTGCCATGAAGCAGGAGGGCTCGGCGCGGCGCGCGCGGACAAGGCGAAACCGCGCCCGGGGAGGAGA
ACAAGAACCCCCACCGCCGCGGCCCGCCAGGATGTGGAGATGAAAGAGGAGGCAGCGACGGGTGGCGGGTCAAC
GGGGGAGGCAGACGGCAAGACGGCGGCGCAGCGGTTGAGCACTCCCAGCGAGAGCTGGACACAGTCACCTTGGG
GGACATCAAGGAGCAGTGAAACAGCTAGAGAAAGCGGTTTCAGGCAAGGAGCCGAGATTCTGTCTGCGGGCCCT
GCGGATGCTGCCTTCCACATCAGCGGCCCTCAACCCTATGTTCTGTATAAGGCTGTGCAGGGCTTCTTCACTTC
AAATAATGCCACTCGAGACTTTTTGCTCCCTTCTGGAAGAGCCCATGGACACAGAGGCTGATTACAGTTCCG
TCCCCGACGGGAAAAGCTGCGTCGACACCCCTCCTGCCTGAAGTGAAGCCTATCTCCAACCTCCTCGTGGTCAT
CTTCATGATGAACAGCAAGCGCTACAAAGAGGCACAGAAGATCTCTGATGATCTGATGCAGAAGATCAGTACTCA
GAACCGCCGGGCCCTAGACCTTGTAGCCGCAAAGTGTTACTATTATCAGCCCGGGTCTATGAGTTTCTGGACAA
GCTGGATGTGGTGCGCAGCTTCTTGATGCTCGGCTCCGGACAGCTACGCTTCGGCATGACGCAGACGGGCAGGC
CACCTGTGTGAACCTCCTGCTGCGGAATTACCTACACTACAGCTTGTACGACCAGGCTGAGAAGCTGGTGTCAA
GTCTGTGTTCAGAGCAGGCCAACAACAATGAGTGGGCCAGGTACCTCTACTACAGGGCGAATCAAAGCCAT
CCAGCTGGAGTACTCAGAGGCCCGGAGAACGATGACCAACGCCCTTCGCAAGGCCCTCAGCACACAGCTGTGG
CTTCAAACAGACGGGTGCACAAGCTTCTCATCGTGGTGGAGCTGTTGCTGGGGGAGATCCCTGACCGGCTGCAGTT
CCGCCAGCCCTCCCTCAAGCGCTCACTCATGCCCTATTTCTTCTGACTCAAGCTGTGAGGACAGGAAACCTAGC
CAAGTTCAACCAGGTCCTGGATCAGTTTGGGGAGAAGTTTCAAGCAGATGGGACCTACACCCTAATTATCCGGCT
GCGGCACAACGTGATTAAGACAGGTGTACGCATGATCAGCCTCTCCTATTCCCGAATCTCCTTGGCTGACATCGC
CCAGAAGCTGCAGTTGGATAGCCCCGAAGATGCAGAGTTTATTGTTGCCAAGGCCATCCGGGATGGTGTGATTGA
GGCCAGCATCAACCACGAGAAGGGCTATGTCCAATCCAAGGAGATGATTGACATCTATTCCACCCGAGAGCCCCA
GCTAGCCTTCCACCAGCGCATCTCCTTCTGCCTAGATATCCACAACATGTCTGTCAAGGCCATGAGGTTTCTCC
CAAATCGTACAACAAGGACTTGGAGTCTGCAGAGGAACGGCGTGAGCGAGAACAGCAGGACTTGGAGTTTGCCAA
GGAGATGGCAGAAGATGATGATGACAGCTTCCCTTCAGCTGGGGGGCTGGGGAGGGGTAGGGGGAATGGGGACAG
GCTCTTTCCCCCTTGGGGGTCCCTGCCCAGGGCACTGTCCCCATTTTCCACACACAGCTCATATGCTGCATTCT
GTGCAGGGGGTGGGGGTGCTGGGAGCCAGCCACCCTGACCTCCCCCAGGGCTCCTCCCCAGCCGGTGACTTACTG
TACAGCAGGCAGGAGGGTGGGCAGGCAACCTCCCCGGGCAGGGTCTGGCCAGCAGTGTGGGAGCAGGAGGGGAA
GGATAGTTCTGTGTAATCTTTAGGGAGTGGGGGACTAGAACTGGGATGTCTTGGCTTGTATGTTTTTGAAGCT
TCGATTATGATTTTTAAACAATAAAAAAGTTCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAGCGCCGCGAAT
TC

223/2682
FIGURE 207

MKQEGSARRRGADKAKPPPGGGEQEP PPPAPQDVEMKEEAATGGGSTGEADGKTAAAAVEHSQRELDTVTLEDI
KEHVKQLEKAVSGKEPRFVLRALRMLPSTSRRLNHYVLYKAVQGFFTSNNATRD FLLPFLEEPMDTEADLQFRPR
TGKAASTPLLPEVEAYLQLLVVFMMNSKRYKEAQKISDDLMQKISTQNRRALDLVAAKCYHHARVYEF LDKLD
VVR SFLHARLRTATLRHDADGQATLLNLLLRNYLHYSLYDQAEKLVSKSVFPEQANNNEWARYLYYTGR IKA IQL
EYSEARRMTNALRKAPQHTAVGFKQTVHKLLIVVELLLGEIPDRLQFRQPSIKRSLMPYFLLTQAVRTGNLAKF
NQVLDQFGEKFQADGTYTLIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQLDSPEDAEFIVAKAIRDGVIEAS
INHEKGYVQSKEMIDIYSTREPQLAFHQRI SFCLDIHNMSVKAMRFPPKSYNKDLESAEERREREQQDLEFAKEM
AEDDDDSFP

224/2682
FIGURE 208A

CAGGACAGGGAAGAGCGGGCGCTATGGGGAGCCGGACGCCAGAGTCCCCTCTCCACGCCGTGCAGCTGCGCTGGG
GCCCCGGCGCCGACCCCGCTCGTGCCGCTGCTGTTGCTGCTCGTGCCGCCGCCACCCAGGGTCGGGGGCTTCA
ACTTAGACGCGGAGGCCCCAGCAGTACTCTCGGGGCCCCGGGCTCCTTCTTCGGATTCTCAGTGGAGTTTACC
GGCCGGGAACAGACGGGGTCAGTGTGCTGGTGGGAGCACCCAAAGGCTAATACCAGCCAGCCAGGAGTGTGCAGG
GTGGTGTCTTACCTCTGTCTTGGGGTGCCAGCCCCACACAGTGCACCCCCATTGAATTTGACAGCAAAGGCT
CTCGGCTCCTGGAGTCTTACTGTCCAGCTCAGAGGGAGAGGAGCCTGTGGAGTACAAGTCTTGCAGTGGTTTCG
GGGAACAGTTCGAGCCCATGGCTCCTCCATCTTGGCATGCGCTCCACTGTACAGCTGGCGCACAGAGAAGGAGC
CACTGAGCGACCCCGTGGGCACCTGCTACCTCTCCACAGATAACTTCACCCGAATTTCTGGAGTATGCACCCTGCC
GCTCAGATTTAGCTGGGCAGCAGGAGTACTGCCAAGGAGGCTTCAGTGGCGAGTTCACCAAGACTGGCC
GTGTGGTTTTAGGTGGACCAGGAAGCTATTTCTGGCAAGGCCAGATCCTGTCTGCCACTCAGGAGCAGATTGCAG
AATCTTATTACCCCGAGTACCTGATCAACCTGGTTCAGGGGCAGCTGCAGACTCGCCAGGCCAGTTCCATCTATG
ATGACAGCTACCTAGGATACTCTGTGGCTGTGGTGAATTCAGTGGTGATGACACAGAAGACTTTGTTGCTGGTG
TGCCCAAAGGGAACCTCACTTACGGCTATGTACCATCTTAATGGCTCAGACATTCGATCCCTCTACAACCTCT
CAGGGGAACAGATGGCCTCCTACTTTGGCTATGCAGTGGCCGCCACAGACGTCAATGGGGACGGGCTGGATGACT
TGCTGGTGGGGCACCCCTGCTCATGGATCGGACCCCTGACGGGCGGCTCAGGAGGTGGGCAGGGTCTACGTCT
ACCTGCAGCACCCAGCCGCATAGAGCCACGCCCACCCCTTACCCTCACTGGCCATGATGAGTTTGGCCGATTG
GCAGCTCCTTGACCCCTTGGGGACCTGGACCAGGATGGCTACAATGATGTGGCCATCGGGGCTCCCTTTGGTG
GGGAGACCCAGGAGGAGTAGTGTGTTGATTTCTTGGGGGCCAGGAGGGCTGGGCTCTAAGCTTCCAGGTTTC
TGCAGCCCTGTGGGCAGCCAGCCACACCCAGACTTCTTTGGCTCTGCCCTTCGAGGAGGCCGAGACCTGGATG
GCAATGGATATCCTGATCTGATTGTGGGGTCTTTGGTGTGGACAAGGCTGTGGTATACAGGGGCCGCCCATCG
TGTCGCTAGTGCCTCCCTCACCATCTTCCCGCCATGTTCAACCCAGAGGAGCGGAGCTGCAGCTTAGAGGGGA
ACCCTGTGGCCTGCATCAACCTTAGCTTCTGCCTCAATGCTTCTGGAACACGTTGCTGACTCCATTGGTTTCA
CAGTGGAACTTCAGCTGGACTGGCAGAAGCAGAAGGGAGGGGTACGGCGGCACTGTTCCTGGCCTCCAGGCAGG
CAACCTTGACCCAGACCTGCTCATCCAGAATGGGGCTCGAGAGGATTGCAGAGAGATGAAGATCTACCTCAGGA
ACGAGTCAGAATTTGAGACAACTCTCGCCGATTACATCGCTCTCAACTTCTCCTTGGACCCCAAGCCCCAG
TGGACAGCCACGGCCTCAGGCCAGCCCTACATTATCAGAGCAAGAGCCGGATAGAGGACAAGGCTCAGATCTTGC
TGGACTGTGGAGAAGACAACATCTGTGTGCTGACCTGCAGCTGGAAGTGTGTTGGGGAGCAGAACCATGTGTACC
TGGGTGACAAGAATGCCCTGAACCTCACTTTCCATGCCCAGAATGTGGGTGAGGGTGGCGCCTATGAGGCTGAGC
TTCCGGTCAACGCCCCCTCCAGAGGCTGAGTACTCAGGACTCGTCAGACACCCAGGGAATTTCTCCAGCCTGAGCT
GTGACTACTTTGCCGTGAACAGAGCCGCTGCTGGTGTGTGACCTGGGCAACCCCATGAAGGCAGGAGCCAGTC
TGTGGGGTGGCCTTCGGTTTACAGTCCCTCATCTCCGGACACTAAGAAAACCATCCAGTTTGACTTCCAGATCC
TCAGCAAGAACTCTCAAACTCGCAAAGCGACGTGGTTTCTTTCCGGCTCTCCGTGGAGGCTCAGGCCAGGTCA
CCCTGAACGGTGTCTCCAAGCCTGAGGCAGTGCTATTCCAGTAAGCGACTGGCATCCCCGAGACCAGCCTCAGA
AGGAGGAGGACCTGGGACCTGCTGTCCACCATGTCTATGAGCTCATCAACCAAGGCCCCAGCTCCATTAGCCAGG
GTGTGCTGGAACTCAGCTGTCCCCAGGCTCTGGAAGGTGAGCAGCTCCTATATGTGACCAGAGTTACGGGACTCA
ACTGCACCACCAATCACCCCATTAACCCAAAGGGCCTGGAGTTGGATCCCGAGGGTTCCCTGCACCACCAGCAAA
AACGGGAAGCTCCAAGCCGAGCTCTGCTTCCCTCGGACCTCAGATCCTGAAATGCCCGGAGGCTGAGTGTTC
GGCTGCGCTGTGAGCTCGGGCCCCCTGCACCAACAAGAGAGCCAAAGTCTGCAGTTGCATTTCCGAGTCTGGGCCA
AGACTTTCTTGACGCGGAGCACCAGCCATTTAGCCTGCAGTGTGAGGCTGTGTACAAAGCCCTGAAGATGCCCT
ACCGAATCCTGCCTCGGCAGCTGCCCCAAAAGAGCGTCAGGTGGCCACAGCTGTGCAATGGACCAAGGCAGAAG
GCAGCTATGGCGTCCCACTGTGGATCATCATCTAGCCATCCTGTTTGGCCTCCTGCTCCTAGGTCTACTCATCT
ACATCCTCTACAAGCTTGGATTCTTCAAACGCTCCCTCCCATATGGCACCGCCATGAAAAAGCTCAGCTCAAGC
CTCCAGCCACCTCTGATGCCAGTCTCTCCCAATTTAGACTCCCATTCCTGAAGAACCAGTCCCCCACCCTCA
TTCTACTGAAAAGGAGGGGCTCTGGGTACTTCTTGAAGGTGCTGACGGCCAGGGAGAAGCTCCTCTCCCCAGCCCA
GAGACATACTTGAAGGGCCAGAGCCAGGGGGGTGAGGAGCTGGGGATCCCTCCCCCATGCACTGTGAAGGACC
CTGTTTACACATAACCTCTTATGGATGGGGGAACCTCAGATCCAGGACAGAGGCCAGCCTCCCTGAAGCCTT
TGCAATTTGGAGAGTTTCTGAAACAACTGGAAGATAACTAGGAAATCCATTACAGTCTTTTGGGCCAGACAT
GCCACAAGGACTTCTGTCCAGCTCCAACCTGCAAAGATCTGTCTCAGCCTTGCCAGAGATCCAAAAGAAGCCC

225/2682
FIGURE 208B

CCAGTAAGAACCTGGAACCTGGGGAGTTAAGACCTGGCAGCTCTGGACAGCCCCACCCTGGTGGGCCAACAAAGA
ACACTAACTATGCATGGTGCCCCAGGACCAGCTCAGGACAGATGCCACAAGGATAGATGCTGGCCCAGGGCCAGA
GCCCAGCTCCAAGGGGAATCAGAACTCAAATGGGGCCAGATCCAGCCTGGGGTCTGGAGTTGATCTGGAACCCAG
ACTCAGACATTGGCACCAATCCAGGCAGATCCAGGACTATATTTGGGCCTGCTCCAGACCTGATCCTGGAGGCC
AGTTCACCCTGATTTAGGAGAAGCCAGGAATTTCCCAGGACCTGAAGGGGCCATGATGGCAACAGATCTGGAACC
TCAGCCTGGCCAGACACAGGCCCTCCCTGTTCCCCAGAGAAAGGGGAGCCCACTGTCCTGGGCCTGCAGAATTTG
GGTTCGCTGCCAGCTGCACCTGATGCTGCCCCCTCATCTCTCTGCCCCAACCTTCCCTCACCTTGGCACCAGACA
CCCAGGACTTATTTAACTCTGTTGCAAGTGCAATAAATCTGACCCAGTGCCCCCACTGACCAGAAGTAGAAAAA
AAAA

226/2682
FIGURE 209

MGSRTPEsplHavQLRWGpRRRPpLVpLLLLLVpPPpRVGGFNLDaEAPAVLSGPPGSFFGFsVEFYRPGTDGVS
VLVGAPKANTSQPGVLQGGAVYLCpWGASPTQCTPIEFDSKGSRLLESSLSsSEGEePVEYKSLQWFGATVRAHG
SSILACAPLYSWrTEKEPLSDpVGTCYLSTDNfTRILEYAPCRSDfSWAAGQGYCQGGfSAEfTKTGRVVLGGPG
SYFWQqILSATQEQIAESYYPEYLINLVQqQLQTRQASSIYDDSYLGYSVAVGEfSGDDTEdFVAGVPKGNLTy
GYVTILNGSDIRSLYNfSGEQMASYFGYAVAATDVNGDGLDDLLVGAPLLMDRTPDGRpQEVGRVYVYLQHPAGI
EPTPTLTLTGHDEFGRFGSSLTPLGDLDQDGYNDVAIGAPFGGETQqGVVFVFPGGPGGLGSKPSQVLQPLWAAS
HTPDFFGSALRGGRDLdGNGYPDLIVGSFGVDKAVVYRGRPIVSASASLTIFPAMFNPEERSCSLEGNPVACINL
SFCLNASGKHVADSIGFTVELQLDWQKQKGGVRRALFLASRQATLTQTLLIQNGAREDCREMKIYLRNESEFRDK
LSPiHIALNFSLDPQAPVDShGLRPALHYQSKSRIEDKAQILLDCGEDNICVPDLQLEVFGEQNHVYLGDKNALN
LTFHAQNVGEGGAYEAELRVTAPPEAEYSGLVRHPGNfSSLSCDYFAVNQSRLLVCDLGnPMKAGASLWGGLRFT
VPHLRDTKKTiQFDfQILSKNLNNSQSDVVSfRLSVEAQAVTLNGVSKPEAVLFPVSDWHPRDQPQKEEDLGPA
VHHVYELINQGPSSISQGVLELSCPQALEGQQLLYVTRVTGLNCTTNHPINPKGLELDPEGSLHHQqKREAPSRs
SASSGPQILKCPeAECfRLRCELGPLHQqESQSLQLHFRVWAKTfLQREHQPFSLQCEAVYKALKMPYRILPRQL
PQKERQVATAVQWTKAEGSYGVPLWIIILAILFGLLLLGLLIYIYKLGFFKRSLPYGTAMEKAQLKPPATSDA

227/2682
FIGURE 210

GGGCGCGCCAGAGACGCAGCCGCGCTCCACCACCCACACCCACCGCGCCCTCGTTCGCCTCTTCTCCGGGAGCC
AGTCCGCGCCACCGCGCCGCCAGGCCATCGCCACCCTCCGCAGCCATGTCCACCAGGTCCGTGTCTCGTCTT
CCTACCGCAGGATGTTTCGGCGGCCCGGGCACCGCGAGCCGGCCGAGCTCCAGCCGGAGCTACGTGACTACGTCCA
CCCGCACCTACAGCCTGGGCAGCGCGCTGCGCCCCAGCACCAGCCGAGCCTCTACGCCTCGTCCCCGGGCGGCG
TGTATGCCACGCGCTCCTCTGCGGTGCGCCTGCGGAGCAGCGTGCCCGGGGTGCGGCTCCTGCAGGACTCGGTGG
ACTTCTCGTGGCCGACGCCATCAACACCGAGTTCAAGAACACCCGCACCAACGAGAAGGTGGAGCTGCAGGAGC
TGAATGACCGCTTCGCCAACTACATCGACAAGGTGCGCTTCTGGAGCAGCAGAATAAGATCCTGTGGCCGAGC
TCGAGCAGCTCAAGGGCCAAGGCAAGTCGCGCCTAGGGGACCTCTACGAGGAGGAGATGCGGGAGCTGCGCCGGC
AGGTGGACAGCTAACCAACGACAAAGCCCCGCGTTCGAGGTGGAGCGCGACAACCTGGCCGAGGACATCATGCGCC
TCCGGGAGAAATTGCAGGAGGAGATGCTTCAGAGAGAGGAAGCCGAAAACACCCTGCAATCTTTCAGACAGGATG
TTGACAATGCGTCTCTGGCACGTCTTGACCTTGAACGCAAAGTGGAATCTTTGCAAGAAGAGATTGCCTTTTTGA
AGAAACTCCACGAAGAGGAAATCCAGGAGCTGCAGGCTCAGATTAGGAACAGCATGTCCAAATCGATGTGGATG
TTTCCAAGCCTGACCTCACGGCTGCCCTGCGTGACGTACGTACGCAATATGAAAGTGTGGCTGCCAAGAACCTGC
AGGAGGCAGAAGAAATGGTACAAATCCAAGTTTGCTGACCTCTCTGAGGCTGCCAACCAGGAACAATGACGCCCTGC
GCCAGGCAAAGCAGGAGTCCACTGAGTACCGGAGACAGGTGCAGTCCCTCACCTGTGAAGTGGATGCCCTTAAAG
GAACCAATGAGTCCCTGGAACGCCAGATGCGTGAAATGGAAGAGAACTTTGCCGTTGAAGCTGCTAACTACCAAG
ACACTATTGGCCGCTGCAGGATGAGATTGAGAATATGAAGGAGGAAATGGCTCGTCACCTTCGTGAATACCAAG
ACCTGCTCAATGTTAAGATGGCCCTTGACATTGAGATTGCCACCTACAGGAAGCTGCTGGAAGGCGAGGAGAGCA
GGATTTCTCTGCCTCTTCCAACTTTTTCTCCCTGAACCTGAGGGAACTAATCTGGATTCACTCCCTCTGGTTG
ATACCCACTCAAAAAGGACATTCTGATTAAGACGGTTGAACTAGAGATGGACAGGTTATCAACGAACTTCTC
AGCATCACGATGACCTTGAATAAAAATTGCACACACTCAGTGGCAGGCGATATATTACCCAGGCAAGAATAAAAA
AGAAATCCCATATCTTAAAGAAACAGCTTTCAAGTGCCTTTCTGCAGTTTTTCAGGAGCGCAAGATAGATTGGGA
ATAGGAATAAGCTCTAGTTCTTAACAACCGACACTCCTACAAGATTTAGAAAAAGTTTACAACATAATCTAGTT
TACAGAAAAATCTTGTGCTAGAATACTTTTTAAAAGGTATTTTGAATACCATTAAACTGCTTTTTTTTTTCCAG
CAAGTATCCAACCAACTTGTTCTGCTTCAATAAATCTTTGGAAAACCTCCA

228/2682
FIGURE 211

MSTRSVSSSSYRRMFGGPGTASRPSSRSYVTTSTRTYSLGSALRPSTSRSLYASSPGGVYATRSSAVRLRSSVP
GVRLLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDKVRFLQONKILLAELEQLKGQKSRLGDLY
EEEMRELRRQVDQLTNDKARVEVERDNLAEDIMRLREKLQEMLQREEAENTLQSFQDQVDNASLARLDLERKVE
SLQEEIAFLKKLHEEEIQELQAQIQEQHVQIDVDVSKPDLTAALRDVRQQYESVAAKNLQEAEEWYKSKFADLSE
AANRNNDALRQAKQESTEYRRQVQSLTCEVDALKGTNESLERQMREMEENFAVEAANYQDTIGRLQDEIQNMKEE
MARHLREYQDLLNVKMALDIEIATYRKLEGEESRISLPLPNFSSLNLRETNLDSLPLVDTHSKRTFLIKTVETR
DGQVINETSQHDDLE

229/2682
FIGURE 212A

CAGTTTGGAGCTCAGTCTTCCACCAAAGGCCGTTTCTCTCTGGGCTCCAGCCTCCTGCAAGGACTGCAAGAG
TTTTCTCCGCAGCTCTGAGTCTCCACTTTTTTGGTGGAGAAAGGCTGCAAAAAGAAAAGAGACGCAGTGAGTG
GGAAAAGTATGCATCCTATTCAAACCTAATTGAATCGAGGAGCCAGGGACACACGCCTTCAGGTTTGCTCAGGG
GTTTCATATTTGGTGTCTAGACAAATTCAAAATGAGGAAACATCGGCCTTGCCTTAGTGGCCGTCTTTTGCCTC
TTTCTCTCAGGCTTTCTTACAACCTCATGCCCAGCAGCAGCAAGCAGATGTCAAAAATGGTGGGCTGCTGATATA
ATATTTCTAGTGGATTCTCTTGGACCATTGGAGAGGAACATTTCCAACCTGTTTCGAGAGTTTCTATATGATGTT
GTAAAATCCTTAGCTGTGGGAGAAAATGATTTCATTTTGTCTGGTCCAGTTCAACGGAAACCCACATACCGAG
TTCCTGTAAATACGTATCGTACTAAACAAGAAGTCCTTTCTCATATTTCCAACATGTCTTATATTGGGGGAACC
AATCAGACTGGAAAAGGATTAGAATACATAATGCAAAGCCACCTCACCAAGGCTGCTGGAAGCCGGGCCGGTGAC
GGAGTCCCTCAGGTTATCGTAGTGTTAACTGATGGACACTCGAAGGATGGCCTTGCTCTGCCCTCAGCGGAACCT
AAGTCTGCTGATGTTAACGTGTTTGCAATTGGAGTTGAGGATGCAGATGAAGGAGCGTTAAAGAAATAGCAAGT
GAACCGCTCAATATGCATATGTTCAACCTAGAGAATTTTACCTCACTTCATGACATAGTAGGAACTTAGTGTC
TGTGTGCTATCATCCGTGAGTCCAGAAAGGGCTGGGGACACGGAAACCTTAAAGACATCACAGCACAAGACTCT
GCTGACATTATTTTCTTATTGATGGATCAAACAACACCGGAAGTGTCAATTTTCGAGTCATTCTCGACTTCCTT
GTAAATCTCCTTGAGAACTCCCAATTGGAACCTCAGCAGATCCGAGTGGGGGTGGTCCAGTTTAGCGATGAGCCC
AGAACCATGTTTCTTGGACACCTACTCCACCAAGGCCAGGTTCTGGGTGCAGTGAAAGCCCTCGGGTTTGCT
GGTGGGGAGTTGGCCAATATCGGCCTCGCCCTTGATTTCGTGGTGGAGAACCCTTCACCCGGGCAGGGGGCAGC
CGCGTGGAGGAAGGGGTTCCCCAGGTGCTGGTCTCATAAGTGCAGGGCCTTCTAGTGACGAGATTGCTACGGG
GTGGTAGCACTGAAGCAGGCTAGCGTGTTCTCATTCCGGCCTTGGAGCCAGGCCGCTCCAGGGCAGAGCTTCAG
CACATAGCTACCGATGACAACCTGGTGTTTACTGTCCCGAATTCCGTAGCTTTGGGGACCTCCAGGAGAAATTA
CTGCCGTACATTGTTGGCGTGGCCCAAAGGCACATTGTCTTGAAACCGCCAACCATTTGTACACAAGTCATTGAA
GTCAACAAGAGAGACATAGTCTTCTGGTGGATGGCTCATCTGCACTGGGACTGGCCAACCTCAATGCCATCCGA
GACTTCATTGCTAAAGTCATCCAGAGGCTGGAATCGGACAGGATCTTATCCAGGTGGCAGTGGCCCAGTATGCA
GACACTGTGAGGCCTGAATTTTATTTCATACCCATCCAACAAAAGGGAAGTCATAACCGCTGTGCGGAAAATG
AAGCCCCCTGGACGGCTCGGCCCTGTACAGGGCTCTGCTCTAGACTTTGTTTCGTAACAACCTATTACAGAGTCA
GCCGGCTACCGGGCTGCGGAGGGGATTCTTAAGCTTTTGGTGTGATCACAGGTGGTAAAGTCCCTAGATGAAATC
AGCCAGCCTGCCCAGGAGCTGAAGAGAAGCAGCATAATGGCCTTTGCCATTGGGAACAAGGGTGGCGATCAGGCT
GAGCTGGAAGAGATCGCTTTTCTGCTCCTCCCTGGTGTTCATCCAGCTGAGTTCCGAGCCGCCCCATTGCAAGGC
ATGCTGCCTGGCTTGTGTCACCTCTCAGGACCCTCTCTGGAACCCCTGAAGTTCACTCAAACAAAAGAGATATC
ATCTTTCTTTTGGATGGATCAGCCAACGTTGGAACCAACATTTCCCTTATGTGCGGACTTTGTAATGAACCTA
GTTAACAGCCTTGATATTGGAATGACAATATTCGTGTTGGTTTGTGCAATTTAGTGCACTCTCTGTAACGGAG
TTCTCTTTAAACACATACCAGACCAAGTCAGATATCCTTGGTCACTGAGGCAGCTGCAGCTCCAGGGAGGTTG
GGCCTGAACACAGGCTCAGCCCTAAGCTATGTCTATGCCAACCACTTCACGGAAGCTGGCGGCAGCAGGATCCGT
GAACACGTGCCGAGCTCCTGCTTCTGCTCACAGCTGGGCAGTCTGAGGACTCCTATTTGCAAGCTGCCAACGCC
TTGACACGCGCGGGCATCTGACTTTTTTGTGTGGGAGCTAGCCAGGCCAATAAGGCAGAGCTTGAGCAGATTGCT
TTTAACCCAAGCCTGGTGATCTCATGGATGATTTACGCTCCCTGCCAGCTTTGCCTCAGCAGCTGATTACAGCC
CTAACCACATATGTTAGTGGAGGTGTGGAGGAAGTACCCTCGCTCAGCCAGAGAGCAAGCGAGACATTCTGTTT
CTCTTTGACGGCTCAGCCAATCTTGTGGGCCAGTTCCCTGTTGTCCGTGACTTTCTCTACAAGATTATCGATGAG
CTCAATGTGAAGCCAGAGGGGACCCGAATTGCGGTGGCTCAGTACAGCGATGATGTCAAGGTGGAGTCCCGTTTT
GATGAGCACCAGAGTAAGCCTGAGATCCTGAATCTTGTGAAGAGAATGAAGTCAAGACGGGCAAAGCCCTCAAC
CTGGGCTACGCGCTGGACTATGCACAGAGGTACATTTTTGTGAAGTCTGCTGGCAGCCGGATCGAGGATGGAGTG
CTTCAGTTCTTGGTGTGCTGGTCCGAGGAAGGTCTATCTGACCGTGTGGATGGGCCAGCAAGTAACCTGAAGCAG
AGTGGGGTTGTGCCCTTTCATCTTCCAAGCCAAGAACGCAGACCCTGCTGAGTTAGAGCAGATCGTGTGTCTCCA
GCGTTTATCTGGCTGCAGAGTCGCTTCCCAAGATTGGAGATCTTCATCCACAGATAGTGAATCTCTTAAATCA
GTGCACAACGGAGCACCAGCACCAGTTTCAGGTGAAAAGGACGTGGTGTCTGCTTGATGGCTCTGAGGGCGTC
AGGAGCGGCTTCCCTCTGTTGAAAGAGTTTGTCCAGAGAGTGGTGAAAGCCTGGATGTGGGCCAGGACCGGGTC
CGCGTGGCCGTGGTGCAGTACAGCGACCGGACCGGCCGAGTTCTACCTGAATTCATACATGAACAAGCAGGAC
GTCGTCAACGCTGTCCGCCAGCTGACCCTGCTGGGAGGGCCGACCCCAACACCGGGGCCGCCCTGGAGTTTGTCT

230/2682
FIGURE 212B

CTGAGGAACATCTTGGTCAGCTCTGCGGGAAGCAGGATAACAGAAGGTGTGCCCCAGCTGCTGATCGTCTCAGC
GCCGACAGGTCTGGGGATGATGTGCGGAACCCCTCCGTGGTCTGAAGAGGGGTGGGGCTGTGCCATTGGCATT
GGCATCGGGAACGCTGACATCACAGAGATGCAGACCATCTCCTTCATCCCGGACTTTGCCGTGGCCATTCCCACC
TTTCGCCAGCTGGGGACCGTCCAACAGGTATCTCTGAGAGGGTGACCCAGCTCACCCGCGAGGAGCTGAGCAGG
CTGCAGCCGGTGTTCAGCCTCTACCGAGCCAGGTGTTGGTGGCAAGAGGGACGTGGTCTTTCTCATCGATGGG
TCCCAAAGTGCCGGGCCCTGAGTTCAGTACGTTTCGCACCCCTCATAGAGAGGCTGGTTGACTACCTGGACGTGGGC
TTTGACACCACCCGGGTGGCTGTCTATCCAGTTTCAGCGATGACCCCAAGGCGGAGTTCTCTGCTGAACGCCCATTC
AGCAAGGATGAAGTGCAGAACGCGGTGCAGCGGTGAGGCCCAAGGGAGGGCGGCAGATCAACGTGGGCAATGCC
CTGGAGTACGTGTCCAGGAACATCTTCAAGAGGCCCTGGGGAGCCGATTGAAGAGGGCGICCCACAGTTCTCTG
GTCCTCATCTCGTCTGGAAGTCTGACGATGAGGTGGTCTGCCGCGGTGGAGCTCAAGCAGTTTGGCGTGGCC
CCTTTCAGGATCGCCAGGAACGCAGACCAGGAGGAGCTGGTGAAGATCTCGCTGAGCCCCGAATATGTGTTCTCG
GTGAGCACCTTCCGGGAGCTGCCAGCCTGGAGCAGAACTGTGACGCCCCATCACGACCCCTGACCTCAGAGCAG
ATCCAGAAGCTCTTAGCCAGCACTCGCTATCCACCTCCAGTGCAGAGTTCAGAGAGCTTCCCAACATAGAAGAA
AGAATCATGAAGTCTGTTGGACCTCCGACCCACTCCTGCACCTCCAGGGGTGGACACCCCTCTCTTTCACGG
CCAGAGAAGAAGAAAGCAGACATTGTGTTCTGTTGGATGGTTCCATCAACTTCAGGAGGGACAGTTTCCAGGAA
GTGCTTCGTTTTGTGCTGAAATAGTGGACACAGTTATGAAGATGGCGACTCCATCCAAGTGGGGCTTGTCCAG
TACAACCTCTGACCCCACTGACGAATTCTTCTGAAGGACTTCTCTACCAAGAGGCAGATTATTGACGCCATCAAC
AAAGTGGTCTACAAAGGGGGAAGACACGCCAACACTAAGGTGGGCCTTGAGCACCTGCGGGTAAACCCTTTGTG
CCTGAGGCAGGCAGCCGCTGGACCAGCGGGTCCCTCAGATTGCCTTTGTGATCACGGGAGGAAAGTCGGTGGAA
GATGCACAGGATGTAGCCCTGGCCCTACCCAGAGGGGGTCAAAGTGTGTTGCTGTTGGAGTGAGGAATATCGAC
TCGGAGGAGGTGGAAAGATAGCGTCCAACAGCGCCACAGCGTTCCGCGTGGGCAACGTCCAGGAGCTGTCCGAA
CTGAGCGGCAAGTTTTGGAACTTTGCATGATGCGATGCAATGAACCCCTTGGCCCTGGTGAAGTATGCTGCC
AAAGCTTGTAATCTGGATGTGATTCTGGGGTTTGAAGTTCTAGAGACCAGAATGTTTTTGTGGCCAGAGGGC
TTGAGTCCAAGGTGGACGCCATCTTGAACAGAATCAGCCAGATGCACAGGGTCAGCTGCAGCGGTGGCCGCTCG
CCCACCTGCGTGTGTCTAGTGGTGGCCAACACGCCCTCGGGCCCGGTGGAGGCCTTTGACTTTGACGAGTACCAG
CCAGAGATGCTCGAGAAGTTCCGGAACATGCGCAGCCAGCACCCCTACGTCTCACGGAGGACACCCCTGAAGGTC
TACCTGAACAAGTTCAGACAGTCTCTCGCCGACAGCGTGAAGGTGGTCATTCTTTACTGATGGAGCAGACGGA
GATCTGGCTGATTTACACAGAGCATCTGAGAACCTCCGCCAAGAAGGAGTCCGTGCCTTGATCCTGGTGGCCCTT
GAACGAGTGGTCAACTTGGAGCGGCTAATGCATCTGGAGTTTGGGCGAGGGTTTATGTATGACAGGCCCTGAGG
CTTAACCTGCTGGACTTGGATTATGAAGTACGCGAGCAGCTTGACAACATTGCCGAGAAAGCTTGCTGTGGGGTT
CCCTGCAAGTGTCTGGGCAGAGGGGAGACCGCGGGCCCATCGGCAGCATCGGGCCAAAGGGTATCTCTGGAGAA
GACGGCTACCGAGGCTATCCTGGTGATGAGGGTGGACCCGGTGAGCGTGGTCCGCTGGTGTGAACGGCACTCAA
GGTTTTCCAGGGCTGCCCGGCCAGAGAGGAGTAAAGGGCTCTCGGGGATTCCCAGGAGAGAAGGGCGAAGTAGGA
GAAATTGGACTGGATGGTCTGGATGGTGAAGATGGAGACAAAGGATTGCCTGGTTCTTCTGGAGAGAAAGGGAAT
CCTGGAAGAAGGGGTGATAAAGGACCTCGAGGAGAGAAAGGAGAAAGAGGAGATGTTGGGATTGAGGGGACCCG
GGTAACCCAGGACAAGACAGCCAGGAGAGAGGACCCAAAGGAGAAACCGGTGACCTCGGCCCATGGGTGTCCCA
GGGAGAGATGGAGTACCTGGAGGACCTGGAGAACTGGGAAGAAATGGTGGCTTTGGCCGAAGGGGACCCCCGGA
GCTAAGGGCAACAAGGGCGGTCTGGCCAGCCGGGCTTTGAGGGAGAGCAGGGGACCAGAGGTGCACAGGGCCCA
GCTGGTCTGCTGGTCTCCAGGGCTGATAGGAGAACAAGGCATTCTGGACCTAGGGGAAGCGGAGGTGCCCGT
GGCGCTCCTGGAGAACGAGGCAGAACCGGTCCACTGGGAAGAAAGGGTGAGCCCGGAGAGCCAGGACCAAAGGA
GGAATCGGGAACCCGGGCCCTCTGTTGGGAGACGGGAGATGACGGGAGAGACGGAGTTGGCAGTGAAGGACGCAGA
GGCAAAAAAGGAGAAAGAGGATTTCTGGATACCCAGGACCAAGGGTAACCCAGGTGAACCTGGGCTAAATGGA
ACAACAGGACCCAAAGGCATCAGAGGCCGAAGGGGAAATTCGGGACCTCCAGGGATAGTTGGACAGAAGGGGAGA
CCTGGCTACCCAGGACAGCTGGTCCAAGGGGCAACAGGGGCGACTCCATCGATCAATGTGCCCTCATCCAAGC
ATCAAAGATAAATGCCCTTGCTGTTACGGGCCCTGGAGTGGCCGCTCTTCCCAACAGAACTAGCCTTTGCTTTA
GACACCTCTGAGGGAGTCAACCAAGACACTTTGCGCCGGATGCGAGATGTGGTCTTGAGTATTGTGAATGCTCTG
ACCATTGCTGAGAGCAACTGCCCGACGGGGGCGGGTGGCTGTGGTCACCTACAACAACAGAGGTGACCACGGAG
ATCCGGTTTGCTGACTCCAAGAGGAAGTCCGTCTCTGGACAAGATTAAGAACCTTCAGGTGGCTCTGACATCC

231/2682
FIGURE 212C

AAACAGCAGAGTCTGGAGACTGCCATGTCGTTTTGTGGCCAGGAACACATTTAAGCGTGTGAGGAACGGATTCTTA
ATGAGGAAAGTGGCTGTTTTCTTCAGCAACACACCCACAAGAGCATCCCCACAGCTCAGAGAGGCTGTGCTCAAA
CTCTCAGATGCGGGGATCACCCCTTGTTCTTACAAGGCAGGAAGACCGGCAGCTCATCAACGCTTTGCAGATC
AATAACACAGCAGTGGGGCATGCGCTTGTCCTGCCTGCAGGGAGAGACCTCACAGACTTCTTGAGAAATGTCCTC
ACGTGTCTATGTTTGTCTGGACATCTGCAACATCGACCCATCCTGTGGATTTGGCAGTTGGAGGCCTTCTTCAGG
GACAGGAGAGCGGCAGGGAGTGATGTGGACATCGACATGGCTTTTCATCTTAGACAGCGCTGAGACCACCACCTG
TTCCAGTTCAATGAGATGAAGAAGTACATAGCGTACCTGGTCAGACAACCTGGACATGAGCCAGATCCCAAGGCC
TCCCAGCACTTCGCCAGAGTGGCAGTTGTGTCAGCAGCGCCCTCTGAGTCCGTGGACAATGCCAGCATGCCACCT
GTGAAGGTGGAATTTCTCCCTGACTGACTATGGCTCCAAGGAGAAGCTGGTGGACTTCTTCAGCAGGGGAATGACA
CAGTTGCAGGGAAACCAGGGCCTTAGGCAGTGCCATTGAATACACCATAGAGAATGTCTTTGAAAGTGCCCCAAAC
CCACGGGACCTGAAAATTTGGTCTGTATGCTGACGGGCGAGGTGCCGGAGCAGCAGCTGGAGGAGGCCAGAGA
GTATCCTGTCAGGCCAAATGCAAGGGCTACTTCTTCGTGGTCTGGGCATTGGCAGGAAGGTGAACATCAAGGAG
GTATACACCTTCGCCAGTGAGCCAAACGACGCTTCTTCAAATTAGTGGACAAGTCCACCAGCTCAACGAGGAG
CCTTTGATGCGCTTCGGGAGGCTGTTGCCGTCCTTCGTGACAGTGAAAATGCTTTTTTACTTGTCCCCAGATATC
AGGAAACAGTGTGATTGGTTCCAAGGGGACCAACCCACAAGAACCCTTGTAAGTTTGGTCACAAACAAGTAAAT
GTTCCGAATAACGTTACTTCAAGTCTACATCCAACCCAGTGACGACAACGAAGCCGGTGACTACGACGAAGCCG
GTGACCACCACAACAAAGCCTGTAACCACCACAACAAAGCCTGTGACTATTATAAATCAGCCATCTGTGAAGCCA
GCCGCTGCAAAGCCGGCCCCCTGCGAAACCTGTGGCTGCCAAGCCTGTGGCCACAAGACGGCCACTGTTAGACCC
CCAGTGGCGGTGAAGCCAGCAACAGCAGCGAAGCCTGTAGCAGCAAAGCCAGCAGCTGTAAGACCCCCGCTGCT
GCTGCAAAACCAGTGGCGACCAAGCCTGAGGTCCCTAGGCCACAGGCAGCCAAACCAGCTGCCACCAAGCCAGCC
ACCACTAAGCCCGTGGTTAAGATGCTCCGTGAAGTCCAGGTGTTTGAGATAACAGAGAACAGCGCCAAACTCCAC
TGGGAGAGGCCTGAGCCCCCGGTCCTTATTTTTATGACCTCACCGTCACCTCAGCCCATGATCAGTCCCTGGTT
CTGAAGCAGAACCTCACGGTCACGGACCGCGTCATTGGAGGCTGCTCGCTGGGCAGACATACCATGTGGCTGTG
GTCTGTACTCTGAGGTCTCAGGTGAGAGCCACCTACCACGGAAGTTTCAGTACAAAGAAATCTCAGCCCCACCT
CCACAGCCAGCAAGGTGAGCTTCTAGTTCAACCATCAATCTAATGGTGAGCACAGAACCATTGGCTCTCACTGAA
ACAGATATATGCAAGTTGCCGAAAGACGAAGGAACCTGTCAGGGATTTTCATATTAAATGGTACTATGATCCAAAC
ACCAAAAGCTGTGCAAGATTCTGGTATGGAGGTGTGGTGGAAACGAAAACAAATTTGGATCACAGAAAGAATGT
GAAAAGGTTTGGCTCCTGTGCTCGCCAAACCCGGAGTCATCAGTGTGATGGGAACCTAAGCGTGGGTGGCCAAC
ATCATATACCTCTTGAAGAAGAAGGAGTCAGCCATCGCCAACTGTCTCTGTAGAAGCTCCGGGTGTAGATTCCC
TTGCACTGTATCATTTTCATGCTTTGATTTTACACTCGAACTCGGGAGGGAACATCCTGCTGCATGACCTATCAGTA
TGGTGCTAATGTGTCTGTGGACCCTCGCTCTCTGTCTCCAGCAGTTCTCTCGAATACTTTGAATGTTGTGTAACA
GTTAGCCACTGCTGGTGTATTATGTGAACATTCCATCAATCCAAATTCCTCTGGAGTTTCATGTTATGCCTGTT
GCAGGCAATGTAAAGTCTAGAAAATAATGCAATGTACGGCTACTCTATATACTTTTGCTTGGTTCATTTTTT
TTCCCTTTTAGTTAAGCATGACTTTAGATGGGAAGCCTGTGTATCGTGGAGAAACAAGAGACCAACTTTTTTCATT
CCCTGCCCCCAATTTCCCAGACTAGATTTCAAGCTAATTTTCTTTTCTGAAGCCTCTAACAATGATCTAGTTC
AGAAGGAAGCAAAATCCCTTAATCTATGTGCACCGTTGGGACCAATGCCTTAATTAAGAATTTAAAAAAGTTGT
AATAGAGAATATTTTTGGCATTCTCTCAATGTTGTGTGTTTTTTTTTTTGTGTGCTGGAGGGAGGGGATTAA
TTTTAATTTTAAATGTTTAGGAAATTTATACAAAGAACTTTTTAATAAAGTATATTGAAAGTTTAAAAAAA
AAAAAA

232/2682
FIGURE 213

MRKHRHLPLVAVFCLFLSGFPTTHAQQQQADVKNGAAADIIFLVDSSWTIGEEHFQLVREFLYDVVKS LAVGEND
FHFALVQFNGNPHTEFLLNTYRTKQEVLSHISNMSYIGGTNQTGKGLEYIMQSHLTKAAGSRAGDGPVQVIVVLT
DGHSKDGLALPSAELKSADVNVFAIGVEDADEGALKEIASEPLNMHMFNLENFTSLHDIVGNLVSCVHSSVSPER
AGDTETLKDITAQDSADIIFLIDGSNNTGSVNFVILDFLVNLEKLP IGTQQIRVG VVQFSDEPRTMFSLDTYS
TKAQVLGAVKALGFAGGELANIGLALDFVVENHFRAGGSRVEEGVPQVLVLISAGPSSDEIRYGVVALKQASVF
SFGGLGAQAASRAELQHIATDDNLVFTVPEFRSFGDLQEKLLPYIVGVAQRHIVLKPPTIIVTQVIEVNRDIVFLV
DGSSALGLANFNAI RDFIAKVIQRLEIGQDLIQVAVAQYADTVRPEFYFNTHPTKREVITAVRKMKPLDGSALYT
GSALDFVRNNLFTSSAGYRAAEGIPKLLVLITGGKSLDEISQPAQELKRSSIMAFAGNKGADQAELEEIFDSS
LVFIPAEFRAAPLQGMPLGLLAPLRTLSTGTPVHNSNRDIIFLLDGSANVGKTNFPYVRDFVMNLVNSLDIGNDN
IRVGLVQFSDTFVTEFSLNTYQTKSDILGHLRQLQQLGSGSGLNTGSALSIVYANHFTEAGGSRIREHVPQLLLLL
TAGQSEDSYLOAANALTRAGILTFCVGASQANKAELEQIAFNPSLVYLMDDFSSLPALPQQLIQPLTTYVSGGVE
EVPLAQPESKRDILFLFDGSANLVGQFPVVRDFLYKI IDELVNKPPEGTRIAVAQYSSDDVKVESRFDHQSKPEIL
NLVKRMKIKTGKALNLGYALDYAQRYIFVKSAGSRIEDGVLQFLVLLVAGRSSDRVDGPASNLKQSGVVPFIFQA
KNADPAELEQIVLSPAFILAAESLPKIGDLHPQIVNLLKSVHNGAPAPVSGEKDVVFLLDGSEGVRS GFPLKEF
VQRVVESLDVGQDRVRVAVVQYSDRTRPEFYLN SYMNKQDVVNAVRLTLLGGPTPNTGAALEFVLNRNIVSSAG
SRITEGVPLLLIVLTADRSGDDVRNPSVVVKRGGAVPIGIGIGNADITEMQTI SFIPDFAVAIPTFRQLGTVQQV
ISERVTLTREELSRLQPVLPSPGVGGKRDVVFLIDGSQSAGPEFYVRTLIERLVLDYLDVGFDTRVAVIQ
FSDDPKAEFLNNAHSSKDEVQNAVQRLRPKGGRQINVGNALEYVSRNIFKRPLGSRIEEGVPQFLVLISSGKSDD
EVVVPVELKQFGVAPFTIARNADQEELVKISLSPEYVFSVSTFRELP SLEQKLLTPITTLTSEQIQKLLASTRY
PPPVREFREL PNIEERIMNSFGPSAATPAPPVGTTPPPSRPEKKKADIVFLDGSINFRD SFQEVLRVSEIVD
TVYEDGDSIQVGLVQYNSDPTDEFFLKDFSTKRQIIDAINKVYKGGRHANTKVGLEHLRVNHVPEAGSRLDQR
VPQIAFVITGGKSVEDAQDVSLALTQRGVKVFVAVGVNRIDSEEVGKIASNSATAFRVGNVQELSELSEQVLETLH
DAMHETLCPGVTDAAKACNLDVILGFDGSRDQNVFVAQKGFESKVDAILNRISQMRHVSCSGGRSPTVRVSVVAN
TPSGPVEAFDFDEYQPEMLEKFRNMRSQHPYVLTEDTLKVYLNKFRQSSPDSVKVVIHFTDGADGDLADLH RASE
NLRQEGVRALILVGLERVNLERLMHLEFGRGFMYDRPLRLNLLDLYELAEQLDNIAEKACCGVPCKCSGQRGD
RGPIGSIGPKGIPGEDGYRGYPGDEGGPGERGPPGVNGTQGFQGC PGQRGVKGSRGFPGEKGEVGEIGLDGLDGE
DGDKGLPGSSGEKGNPGRRGDKGPRGEKGERGDVGIRGDPGNPGQDSQER

233/2682
FIGURE 214

GTTGGTGAGCATCATGGCAACCGTTACAGCCACAACCAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCG
AATCGGTGCCCACTCCACATCCGGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCAT
GGTGGGTGAGCTGGCGGCACGGCGGGCGGCTGGCGTGGTGCTGGAGATGATCCGGGAAGGGAAGATTGCCGGTCG
GGCAGTCCTTATTGCTGGCCAGCCGGGCACGGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCCCTGGGCCC
TGACACGCCATTACAGCCATCGCCGGCAGTGAAATCTTCTCCCTGGAGATGAGCAAGACCGAGGCGCTGACGCA
GGCCTTCCGGCGGTCCATCGGCGTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGGGAGGTGGTGGAGATCCA
GATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGGCAAACTGACCCTCAAGACCACAGAGATGGAGACCAT
CTACGACCTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGTCCAGGCCGGGGACGTGATCACCATCGA
CAAGGCGACGGGCAAGATCTCCAAGCTGGGCGCTCCTTCACACGCGCCCGCGACTACGACGCTATGGGCTCCCA
GACCAAGTTCGTGCAGTGCCAGATGGGGAGCTCCAGAAACGCAAGGAGGTGGTGCACACCGTGTCCCTGCACGA
GATCGACGTCATCAACTCTCGCACCCAGGGCTTCCTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGA
AGTCCGTGAGCAGATCAATGCCAAGGTGGCTGAGTGGCGCGAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGCT
GTTTCATCGACGAGGTCCACATGCTGGACATCGAGAGCTTCTCCTTCCTCAACCGGGCCCTGGAGAGTGACATGGC
GCCTGTCTGATCATGGCCACCAACCGTGGCATCACGCGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCAT
CCCCATAGACCTGCTGGACCGGCTGCTTATCGTCTCCACCACCCCTACAGCGAGAAAGACACGAAGCAGATCCT
CCGCATCCGGTGCGAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGCTGACCCGCATCGGGCTGGA
GACGTCACTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGGAACGCAAGGGTACAGAAGT
GCAGGTGGATGACATCAAGCGGGTCTACTCACTCTTCTGGACGAGTCCCGCTCCACGCAGTACATGAAGGAGTA
CCAGGACGCCTTCTCTTCAACGAACTCAAAGGCGAGACCATGGACACCTCCTGAGTTGGATGTCATCCCCCGAC
CCCACCCTGTTTTCCACCAGAGTTCTGACACTGTGACTCTGTATAAAATGGTTGGGAAGCTGC

234/2682
FIGURE 215

MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVGQLAARRAAGVVLEMIREGKIAGRAVLI
AGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEIIIEGEVVEIQIDRP
ATGTGSKVGKLTCLKTTEMETIYDLGTMIESLTKDKVQAGDVITIDKATGKISKLGRSFTRARDYDAMGSQTKFV
QCPDGELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREQINAKVAEWREEGKAEIIPGVLFIDE
VHMLDIESFSFLNRALES DMAPVLIMATNRGITRIRGTSYQSPHGIPIDLLDRLLIVSTTPYSEKDTKQILRIRC
EEEDVEMSEDAYTVLTRIGLETSRYAIQLITAASLVCRKRKGTEVQVDDIKRVYSLFLDESSTQYMKEYQDAF
LFNELKGETMDTS

235/2682
FIGURE 216

GAGCAGCGCGCCTGACGGGACCAAGGCGGCGGGAGTCTGCGGTGCTTCCCTCGGCTGTGGACCGGGCGGCACGC
ACGCGGTGACAGGGTAACATGGCGGATGCGGAAGTAATTATTTTGGCCAAAGAAACATAAGAAGAAAAAGGAGCGGA
AGTCATTGCCAGAAGAAGATGTAGCCGAAATACAACACGCTGAAGAATTTCTTATCAAACCTGAATCCAAAGTTG
CTAAGTTGGACACGTCTCAGTGGCCCTTTTGGCTAAAGAATTTTGATAAGCTGAATGTAAGGACAACACACTATA
CACCTCTTGCATGTGGTTCAAATCCTCTGAAGAGAGAGATTGGGGACTATATCAGGACAGGTTTCATTAATCTTG
ACAAGCCCTCTAACCCTCTTCCCATGAGGTGGTAGCCTGGATTGACGATACTTCGGGTGGAGAAGACAGGGC
ACAGTGGTACTCTGGATCCCAAGGTGACTGGTTGTTTAAATCGTGTGCATAGAACGAGCCACTCGCTTGGTGAAGT
CACAAACAGAGTGCAGGCAAAGAGTATGTGGGGATTGTCCGGCTGCACAATGCTATTGAAGGGGGGACCCAGCTTT
CTAGGGCCCTAGAACTCTGACAGGTGCCCTTATTCCAGCGACCCCCACTTATTGCTGCAGTAAAGAGGCAGCTCC
GAGTGAGGACCATCTACGAGAGCAAAATGATTGAATACGATCCTGAAAGAAGATTAGGAATCTTTGGGTGAGTT
GTGAGGCTGGCACCTACATTTCGGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGTGGTCAGATGCAGG
AGCTTCGGAGGGTTCGTTCTGGAGTCATGAGTGAAAAGGACCACATGGTGACAATGCATGATGTGCTTGATGCTC
AGTGGCTGTATGATAACCAAGGATGAGAGTTACCTGCGGCGAGTTGTTTACCCTTTGGAAAAGCTGTTGACAT
CTCATAAACGGCTGGTTATGAAAGACAGTGCAGTAAATGCCATCTGCTATGGGGCCAAGATTATGCTTCCAGGTG
TTCTTCGATATGAGGACGGCATTGAGGTCAATCAGGAGATTGTGGTTATCACCACCAAAGGAGAAGCAATCTGCA
TGGCTATTGCATTAATGACCACAGCGGTCTCTCTACCTGCGACCATGGTATAGTAGCCAAGATCAAGAGAGTGA
TCATGGAGAGAGACATTACCCTCGGAAGTGGGGTTTAGGTCCAAAGGCAAGTCAGAAGAAGCTGATGATCAAGC
AGGGCCTTCTGGACAAGCATGGGAAGCCCACAGACAGCACCTGCCACCTGGAAGCAGGAGTATGTTGACTACA
GTGAGTCTGCCAAAAAAGAGGTGGTTGCTGAGTGGTAAAAGCCCCGAGGTAGTTGCCGAAGCAGCAAAAACTG
CGAAGCGGAAGCGAGAGAGTGAGAGTGAAAGTGACGAGACTCCTCCAGCAGCTCCTCAGTTGATCAAGAAGGAAA
AGAAGAAGAGTAAGAAGGACAAGAAGGCCAAAGCTGGTCTGGAGAGCGGGGCCGAGCCTGGAGATGGGGACAGTG
ATACCACCAAGAAGAAGAAGAAGAAGAAGCAAAAGAGGTAGAATTGGTTTCTGAGTAGTGAAGGCCACTTG
AAGCTGGAGGAGAACTAAAGCCTTATTGAGAAAAACATGTTATAGATCCTTTTGTGCTGAGAGAGTGGAACATA
GGTCTAGACAGGGTGAAGAGTTCTGGCACATTTTAGCTGCTACTTTGAGACCTCGGTGATGTTACCTGGTGTGG
TCATCCCATCTTGTCTGTTTAAAGGATATGGGTGGTGAAAGATGAAAGAGGCAGAGTTTATCCCAATGACTTCT
CTGTTTGAAGTTGGGAAGCCTCACCTTCAGACCCAGTAACTGTCCGCAGCTGTCTGCTAGTGGTTGTCTTAACATC
GTAGTCCTAGTTTGCATTTTTTAAATCCCCTCTGTTTAAAAGGTTTGTAAAACAAAAACAAAACTAAGTCTGC
TCAGTGAAATGCTGTAGAACCCTAAATAAGTGGTAGAAGAGTGTCACTGAATTTTGTCTCTGAATTCAGTATAAC
TGAGTTTTGTCCATGCTGGTGTCTGGGTATAGGCCTGATGGGCCTGGTAGTTTTCCATCTTGTCTGGCCTAGA
GGTCAGTCCTTTGCACTTCCTCAAAGCTTGTGTACAGTGCTCACCTAAATCCATCTGACTACTTGTCTCTGTGCC
CTCTTGTTTTAGGCCTCGTTTACTTTTAAAAATGAAATTGTTTATTGCTGGGAGAAGAAATGTTGTAATTTTAC
TTATTAAAGTCAACTTGTTAAGTTTTTATGTATTCCTGTTGGGTTTTCTTGTGATCTCATGCTAGCAGAGCAA
AAATTGTAAATATTTTGATTAAAAATCTAGGGACCTTTATGTCCTATTGGAATTCGATATCAA

236/2682
FIGURE 217

MADAEVILPKKHKKKKERKSLPEEDVAEIQHAEFLIKPESKVAKLDTSQWPLLLKNFDKLNVRTTHYTPLACG
SNPLKREIGDYIRTGFINLDKPSNPSSHEVVAWIRRLRVEKTGHSGTLDPKVTGCLIVCIERATRLVKSQQSAG
KEYVGIVRLHNAIEGGTQLSRALETLTGALFORPPLIAAVKRQLRVRTIYESKMIEYDPERRLGIFWVSCEAGTY
IRTLCVHLGLLLGVGGMQELRRVRSGVMSEKDHMTMHDVLDQWLYDNHKDESYLRRVVYPLEKLLTSHKRLV
MKDSAVNAICYGAKIMLPGLRYEDGIEVNQEIVVITTKGEAICMAIALMTTAVISTCDHGIVAKIKRVIMERDT
YPRKWGLGPKASQKKLMIKQGLLDKHGKPTDSTPATWKQEYVDYSESAKKEVVAEVVKAPQVVAEAAKTAKRKRE
SESEDETPPAAPQLIKKEKKKSKDKKAKAGLESGAEPGDGSDTTKKKKKKKAKEVELVSE

237/2682
FIGURE 218

TCTGGGCGCGCGGACGTCAGTTTGAGTTCTGTGTTCTCCCCGCCCCGTGTCCCGCCCCGACCCGCGCCCCGCGATGC
TGGCGCTGCGCTGCGGCTCCCGCTGGCTCGGCCTGCTCTCCGTCCCGCGCTCCGTGCGCGCTGCGCCTCCCCGCGG
CCCGCGCCTGCAGCAAGGGCTCCGGCGACCCGTCCTTCTCCTCCTCCGGAACCCGCTCGTGACCTGGACG
TGGACGCCAACGGGAAGCCGCTCGGCCGCGTGGTGTGGAGCTGAAGGCAGATGTCTGCCAAAGACAGCTGAGA
ACTTCAGAGCCCTGTGCACTGGTGAGAAGGGCTTCGGCTACAAAGGCTCCACCTTCCACAGGGTGATCCCTTCTT
TCATGTGCCAGGCGGGCGACTTCACCAACCACAATGGCACAGGCGGGAAGTCCATCTACGGAAGCCGCTTTCCTG
ACGAGAACCTTTTACACTGAAGCACGTGGGGCCAGGTGTCTGTCCATGGCTAATGCTGGTCTAACACCAACGGCT
CCCAGTTCTTTCATCTGCACCATAAAGACAGACTGGTTGGATGGCAAGCATGTTGTGTTCCGGTCACGTCAAAGAGG
GCATGGACGTCGTGAAGAAAATAGAATCTTTCCGGCTCTAAGAGTGGGAGGACATCCAAGAAGATTGTCATCACAG
ACTGTGGCCAGTTGAGCTAATCTGTGGCCAGGGTGTGGCATGGTGGCAGCTGCAAATGTCCATGCACCCAGGTG
GCCGCGTTGGGCTGTGAGCCAAGGTGCCTGAAACGATACGTGTGCCCACTCCACTGTCACAGTGTGCCTGAGGAA
GGCTGCTAGGGATGTTAGACCTCGGCCAGGACCCACCACATTGCTTCTAATAACCCACCCTTCTCACGACCTCA
TTTCTGGGCATCTTTGTGGACATGATGTACCCACCCCTTGTCAAGCATTGCCTGTGATTGCCAGCCCAGATTCT
ATCTGTGCCTTGGACATGGTGATGGTGATGGGTTGCCATCCAAGTGAAGTCTTTTCTTGACCAAGGGGGACAG
TCAGTTTTGCAAAGGACTCTAATACCTGTTTAATATTGTCTTCTAATTGGGATAATTTAATTAACAAGATTGA
CTAGAAGTGAACTGCAACACTAACTTCCCCGTGCTGTGGTGTGACCTGAGTTGGTGACACAGGCCACAGACCCC
AGAGCTTGGCTTTTGAACACAACTCAGGGCTTTTGTGAAGGTTCCCCCGCTGAGATCTTCTCCTGGTTACTG
TGAAGCCTGTTGGTTTGTGCTGTGCTTTTTGAGGAGGGCCCATGGGGGTAGGAGCAGTTGAACCTGGGAACAAA
CCTCACTTGAGCTGTGCCTAGACAATGTGAATTCCTGTGTTGCTAACAGAAGTGGCCTGTAAGCTCCTGTGCTCC
GGAGGGGAAGCATTTCTGGTAGGCTTTGATTTTTCTGTGTGTTAAAGAAATTCAATCTACTCATGATGTGTTATG
CATAAAACATTTCTGGAACATGGATTGTGTTACCTTAAATGTGAAAATAAATCCTATTTTCTATGGAAAAAA
AAAAAAAAAAAAAAAA

238/2682

FIGURE 219

MLALRCGSRWLGLLSVPRSVPLRLPAARACSKGSGDPSSSSSSGNPLVYLDVDANGKPLGRVVLELKADVVPKTA
ENFRALCTGEKGFYKGSTFHRVIPSFMCQAGDFTNHNGTGGKSIYGSRFPDENFTLKHVGPVLSMANAGPNTN
GSQFFICTIKTDWLDGKHVVFGHVKEGMDVVKKIESFGSKSGRTSKKIVITDCGQLS

239/2682
FIGURE 220

TC TGGGCGCGCGCGACGT CAGTTTGAGTTCTGTGTTCTCCCCGCCCGTGTCCCGCCGACCCGCGCCCGCGATGC
TGGCGCTGCGCTGCGGCTCCCGCTGGCTCGGCCTGCTCTCCGTCGCCGCTCCGTGCCGCTGCGCCTCCCCGCGG
CCCGCGCCTGCAGCAAGGGCTCCGGCGACCCGTCCTCTTCCCTCCTCCGGGAACCCGCTCGTGTACCTGGACG
TGGACGCCAACGGGAAGCCGCTCGGCCGCGTGGTGCTGGAGCTGAAGGCAGATGTCGTCCCAAAGACAGCTGAGA
ACTTCAGAGCCCTGTGCACTGGTGAGAGGGCTTCGGCTACAAAGGCTCCACCTTCCACAGGGTGATCCCTTCCT
TCATGTGCCAGGCGGGCGACTTCACCAACCACAATGGCACAGGCGGGAAGTCCATCTACGGAAGCCGCTTTCCTG
ACGAGAACTTTACACTGAAGCACGTGGGGCCAGGTGTCCTGTCCATGGCTAATGCTGGTCCTAACACCAACGGCT
CCCAGTTCTTCATCTGCACCATAAAGACAGACTGGTTGGATGGCAAGCATGTTGTGTTCCGGTCACGTCAAAGAGG
GCATGGACGTCGTGAAGAAAAAGATAATCTTTTCGGCTCTAAGAGTGGGAGGACATCCAAGAAGATTGTATCACAG
ACTGTGGCCAGTTGAGCTAATCTGTGGCCAGGGTGTGGCATGGTGGCAGCTGCAAATGTCCATGCACCCAGGTG
GCCGCGTTGGGCTGTGAGCAAGGTGCCTGAAACGATACGTGTGCCCACTCCACTGTACAGTGTGCTGAGGAA
GGCTGTAGGGATGTTAGACCTCGGCCAGGACCCACCACATTGCTTCCTAATACCCACCCCTTCCTACGACCTCA
TTTCTGGGCATCTTTGTGGACATGATGTCACCCACCCCTTGTCAAGCATTGCCTGTGATTGCCAGCCAGATTCT
ATCTGTGCCTTGGACATGGTGATGGTGATGGGTGGCATCCAAGTGAAAGTCTTTTCCTTGACCAAGGGGGACAG
TCAGTTTTGCAAAGGACTCTAATACCTGTTTAATATTGTCTTCCCTAATTGGGATAATTTAATTAACAAGATTGA
CTAGAAGTGAAACTGCAACACTAACTTCCCCGTGCTGTGGTGACCTGAGTTGGTGACACAGGCCACAGACCCC
AGAGCTTGGCTTTTGAAACACAACCTCAGGGCTTTTGTGAAGGTTCCCCCGCTGAGATCTTTCCTCCTGGTTACTG
TGAAGCCTGTGTGGTTTGCTGCTGTCGTTTTTGGAGAGGGCCCATGGGGGTAGGAGCAGTTGAACCTGGGAACAAA
CCTCACTTGAGCTGTGCCTAGACAATGTGAATTCCTGTGTGCTAACAGAAGTGGCCTGTAAGCTCCTGTGCTCC
GGAGGGAAGCATTTCCTGGTAGGCTTTGATTTTTCTGTGTGTTAAAGAAATTCAATCTACTCATGATGTGTTATG
CATAAAACATTTCTGGAACATGGATTTGTGTTACCTTAAATGTGAAAATAAATCCTATTTTCTATGGAAAAAAA
AAAAAAAAAAAAAAAA

240/2682
FIGURE 221

MLALRCGSRWLGLLSVPRSVPLRLPAARACSKGSGDPSSSSSSGNPLVYLDVDANGKPLGRVVLELKADVVPKTA
ENFRALCTGEKGFYKGSTFHRVIPSFMCQAGDFTNHNGTGGKSIYGSRFPDENFTLKHVGPVLSMANAGPNTN
GSQFFICTIKTDWLDGKHVVFGHVKEGMDVVKKIESFGSKSGRTSKKIVITDCGQLS

241/2682
FIGURE 222

TGCCGCCGTCCCGCCCGCCAGCGCCCCAGCGAGGAAGCAGCGCGCAGCCCCGCGGCCAGCGCACCCGCAGCAGCG
CCCCGAGCTCGTCCGCGCCATGTTCCAGGCGGCCGAGCGCCCCCAGGAGTGGGCCATGGAGGGCCCCCGCGACGG
GCTGAAGAAGGAGCGGCTACTGGACGACCGCCACGACAGCGGCCTGGACTCCATGAAAGACGAGGAGTACGAGCA
GATGGTCAAGGAGCTGCAGGAGATCCGCCTCGAGCCGAGGAGGTGCCGCGCGGCTCGGAGCCCTGGAAGCAGCA
GCTCACCGAGGACGGGGACTCGTTCTCTGCACCTTGCCATCATCCATGAAGAAAAGGCACTGACCATGGAAGTGAT
CCGCCAGGTGAAGGGAGACCTGGCTTTCCTCAACTTCCAGAACAACCTGCAGCAGACTCCACTCCACTTGGCTGT
GATCACCAACCAGCCAGAAATTGCTGAGGCACTTCTGGGAGCTGGCTGTGATCCTGAGCTCCGAGACTTTTCGAGG
AAATACCCCCCTACACCTTGCCTGTGAGCAGGGCTGCCTGGCCAGCGTGGGAGTCCTGACTCAGTCCTGCACCAC
CCCGCACCTCCACTCCATCCTGAAGGCTACCAACTACAATGGCCACACGTGTCTACACTTAGCCTCTATCCATGG
CTACCTGGGCATCGTGGAGCTTTTGGTGTCTTGGGTGCTGATGTCAATGCTCAGGAGCCCTGTAATGGCCGGAC
TGCCCTTCACCTCGCAGTGGACCTGCAAAATCCTGACCTGGTGTCACTCCTGTTGAAGTGTGGGGCTGATGTCAA
CAGAGTTACCTACCAGGGCTATTCTCCCTACCAGCTCACCTGGGGCCGCCAAGCACCCGGATACAGCAGCAGCT
GGGCCAGCTGACACTAGAAAACCTTCAGATGCTGCCAGAGAGTGAGGATGAGGAGAGCTATGACACAGAGTCAGA
GTTACCGGAGTTCACAGAGGACGAGCTGCCCTATGATGACTGTGTGTTTGGAGGCCAGCGTCTGACGTTATGAGT
GCAAAGGGGCTGAAAGAACATGGACTTGTATATTTGTACAAAAAAAAGTTTATTTTTCTAAAAAAGAAAAA
GAAGAAAAAATTTAAAGGGTGTACTTATATCCACACTGCACACTGCCTAGCCCCAAAACGTCTTATTGTGGTAGGA
TCAGCCCTCATTTTGTGCTTTTGTGAACTTTTGTAGGGGACGAGAAAGATCATTGAAATTCTGAGAAACTTC
TTTTAAACCTCACCTTTGTGGGGTTTTTGGAGAAGGTTATCAAAAATTTTCATGGAAGGACCACATTTTATATTTA
TTGTGCTTCGAGTGACTGACCCAGTGGTATCCGTGTGACATGTAACAGCCAGGAGTGTTAAGCGTTCAGTGATGT
GGGGTGAAAAGTTACTACCTGTCAAGGTTTGTGTTACCCTCCTGTAAATGGTGTACATAATGTATTGTTGGTAAT
TATTTTGGTACTTTTATGATGTATATTTATTAAAGAGATTTTACAAATG

242/2682
FIGURE 223

MFQAAERPQEWAMEGPRDGLKKERLLDDRHD SGLDSMKDEEYEQMVKELQEIRLEPQEVPRGSEPWKQQLTEDGD
SFLHLAI IHEEKALTMEVIRQVKGDLAFLNFQNNLQQTPLHLAVITNQPEIAEALLGAGCDPELRDFRGNTPLHL
ACEQGCLASVGVLTQSC TTPHLHSILKATNYNGHTCLHLASIHGYLGIVELLVSLGADVNAQEP CNGRTALHLAV
DLQNPDLVSLLLKCGADVNRVTYQGYS PYQLTWGRPSTRIQQQLGQLTLENLQMLPESEDEESYDTESEFTEFTE
DELPYDDCVFGGQRLTL

243/2682
FIGURE 224

CGGCGGAGCTGGTCCCGTTGTGCTGCGGGCGCCGCGCGGCCTGCAGTCCCGGGCCCGCGCCCGCGCCCGCCG
GCCCCGCCATGGAGCCCGGCCCGACGGCCCCGCCGCTCCGGCCCCCGCCGCGCATCCGCGAGGGCTGGTTCCGCGA
GACCTGCAGCCTGTGGCCCCGCCAGGCCCTGTGCTGTCAGGTGGAGCAGCTGCTCCACCACCGGCGCTCGCGCTA
CCAGGACATCCTCGTCTTCCGCGAGTAAGACCTATGGCAACGTGCTGGTGTGGACGGTGTGCATCCAGTGCACGGA
GAGAGACGAGTTCTCCTACCAGGAGATGATCGCCAACCTGCCTCTCTGCAGCCACCCCAACCCGCGAAAGGTGCT
GATCATCGGGGGCGGAGATGGAGGTGTCTGCGGGAGGTGGTGAAGCACCCCTCCGTGGAGTCCGTGGTCCAGTG
TGAGATCGACGAGGATGTGCATCCAAGTCTCCAAGAAGTTCTGCCAGGCATGGCCATTGGCTACTCTAGCTCGAA
GGTGACCCTACATGTGGGTGACGGTTTTGAGTTTCATGAAACAGAATCAGGATGCCTTCGACGTGATCATCACTGA
CTCCTCAGACCCCATGGGCCCCGCCGAAAGTCTCTTCAAGGAGTCTATTACCAGCTCATGAAGACAGCCCTCAA
GGAAGATGGTGTCTCTGCTGCCAGGGCGAGTGCAGTGGCTGCACCTGGACCTCATCAAGGAGATGCGGCAGTT
CTGCCAGTCCCTGTTCCTCGTGGTGGCCTATGCCTACTGCACCATCCCCACCTACCCACGCGGCCAGATCGGCTT
CATGCTGTGCAGCAAGAACCCGAGCACGAACCTCCAGGAGCCGGTGCAGCCGCTGACACAGCAGCAGGTGGCGCA
GATGCAGCTGAAGTACTACAACCTCCGACGTGCACCGCGCCGCCCTTTGTGCTGCCGAGTTTGCCCGCAAGGCCCT
GAATGATGTGAGCTTGAGCCCCAGGCGCCACCACTGATGCCACCCAGGACCTCGGACCTTGGAGCCTGCGGGGTGCC
TCGGCCCCCTCCAGCCCCGGGCCGGACCTCCTGCTGGCTCTCGCCACCAACCAAGTGTACAAAGCCCCAGAATGC
TGCCCGGCCTGCCCTGCTGGGCGGACTGTCTGTGTGTCTGTCTCTTGGCGTTCCACCTCCAAGCCTATACCAGC
TGTGTACAGCGCCATCTCTCTGCCCTTCTGTTGCCCCCG

244/2682

FIGURE 225

MEPGPDGPAASGPAAIREGWFRETCSLWPGQALSLQVEQLLHRRSRYQDILVFRSKTYGNVLVLDGVIQCTERD
EFSYQEMIANLPLCSHPNPRKVLIIIGGGDGGVLREVVKHPSVESVVQCEIDEDVIQVSKKFLPGMAIGYSSSKVT
LHVGDGFEFMKQNQDAFDVITDSSDPMGPAESLFKESYYQLMKTALKEDGVLCCQGECEWLHLDLIKEMRQFCQ
SLFPVVAYAYCTIPTYPGQIGFMLCSKNPSTNFQEPVQPLTQQQVAQMQLKYNSDVHRAAFVLPEFARKALND
VS

TCT

246/2682

FIGURE 227

MAGLPRIKETQRLAEPVPGIKAEPDESARYFHVVIAGPQDSPFEGGTFKLELFLPEEYPMAAPKVRFMTKI
YHPNVDKLGRIKLDILKDKWSPALQIRTVLLSIQALLSAPNPDDPLANDVAEQWKTNEAQAIETARAWTRLYAMN
NI

247/2682
FIGURE 228

CTAGTTTCTAAGGATCATGCTCTGCGAGCCAGGATTCCCGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGA
AGGCGTCATCGAGAGTAAGTGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCG
TGGCATCTACGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCGAGCCATTCTACCTTGTATCAAGGGTTA
TGATGTGATTGCTCAAGCCCAATCTGGGACTGGGAAAACGGCCACATTGCCATATCGATTCTGCAGCAGATTGA
ATTAGATCTAAAAGCCACCCAGGCCCTTGGTCCTAGCACCCACTCGAGAAITGGCTCAGCAGATACAGAAGGTGGT
CATGGCACTAGGAGACTACATGGGCGCCTCCTGTACGCCTGTATCGGGGGCACCAACGTGCGTGCTGAGGTGCA
GAACTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCCTGGCCGTGTGTTTGATATGCTTAACCGGAGATA
CCTGTCCCCCAAATACATCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCA
GATCTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTGAGCCACAATGCCTTCTGATGT
GCTTGAGGTGACCAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGG
TATCCGCCAGTTCTACATCAACGTGGAACGAGAGGAGTGAAGCTGGACACACTATGTGACTTGTATGAAACCCCT
GACCATCACCCAGGCAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCG
AGATTTCACTGTATCCGCCATGCATGGAGATATGGACAAAAGGAACGAGACGTGATTATGAGGGAGTTTCGTTT
TGGCTCTAGCAGAGTTTTGATTACCACTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCAT
CAACTATGACCTTCCCACCAACAGGGAAAACCTATATCCACAGAATCGGTTCGAGGTGGACGGTTTGGCCGTAAAGG
TGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCAT
TGAGGAAATGCCCCCTCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCACCCAGCCCCAGCCAGGGGCTCAAT
CTCTGGGGGCTGAGGAGCAGCAGGAGGGGGAGGGAAGGGATGGACATCTTGTCAATTTTTTTTCTT
TGAATAAATGTCACTTTTTTGAGGCAAAAGAAGG

248/2682

FIGURE 229

MSASQDSRSRDNGPDGMEPEGVIESNWNEIVDSFDDMNLSESLLRGIYAYGFEKPSAIQQRAILPCIKGYDVIAQ
AQSGTGKTATFAISILQQIELDLKATQALVLAPTRELAQQIQKVVMA LGDYM GASCHACIGGTNVRAEVQKLQME
APHIIVGTPGRVFDMLNRRYLSPKYIKMFVLDEADEMLSRGFKDQIYDIFQKLNSNTQVVLLSATMPSDVLEVTK
KFMRDPIRILVKKEELTLEGIRQFYINVEREEWKDLTCLDYETLTITQAVIFINTRRKVDWLTEKM HARDFTVS
AMHGDMDQKERDVIMREFRSGSSRVLITD L LARGIDVQQVSLVIN YDLPTNRENYIHRIGRGGRFGRKG VAINM
VTEEDKRTL RDIETFYNTSIEEMPLNVADLI

249/2682
FIGURE 230

GCACGATGAGCTCAATCGGCACTGGGTATGACCTGTCAGCCTCTACATTCTCTCCTGACGGAAGAGTTTTTCAAG
TTGAATATGCTATGAAGGCTGTGGAAAATAGTAGTACAGCTATTGGAATCAGATGCAAAGATGGTGTGTCTTTG
GGGTAGAAAAATTAGTCCTTTCTAAACTTTATGAAGAAGGTTCCAACAAAAGACTTTTTAATGTTGATCGGCATG
TTGGAATGGCAGTAGCAGGTTTGTGGCAGATGCTCGTTCTTTAGCAGACATAGCAAGAGAAGAAGCTTCCAAC
TCAGATCTAACTTTGGCTACAACATTCCACTAAAACATCTTGCAGACAGAGTGGCCATGTATGTGCATGCATATA
CACTCTACAGTGCTGTTAGACCTTTTGGCTGCAGTTTCATGTTAGGGTCTTACAGTGTGAATGACGGTGCGCAAC
TCTACATGATTGACCCATCAGGTGTTTCATACGGTTATTGGGGCTGTGCCATCGGCAAAGCCAGGCAAGCTGCAA
AGACGGAAATAGAGAAGCTTCAGATGAAAGAAATGACCTGCCGTGATATCGTTAAAGAAGTTGCAAAAATAATTT
ACATAGTACATGACGAAGTTAAGGATAAAGCTTTGAACTAGAACTCAGCTGGGTTGGTGAATTAATAATGGAA
GACATGAAATTGTTCCAAAAGATATAAGAGAAGAAGCAGAGAAATATGCTAAGGAATCTCTGAAGGAAGAAGATG
AATCAGATGATGATAATATGTAACATTTACTCCAGCATCTATTGTATTTTAAATTTCTACTCCAGTCCAATGTAA
CTATTTAGCCCTG

250/2682
FIGURE 231

MSSIGTGYDLSASTFSPDGRVFQVEYAMKAVENTSSTAIGIRCKDGVVFGVEKLVLKLYEEGSNKRLFNVDHRVG
MAVAGLLADARSLADIAREEASNFRSNGYNIPLKHLADRVAMYVHAYTLYSAVRPFGCSFMLGSYSVNDGAQLY
MIDPSGVSYGYWGCAIGKARQAAKTEIEKLQMKEMTCRDIVKEVAKIIYIVHDEVKDKAFELELSWVGELTNGRH
EIVPKDIREEAEKYAKESLKEEDESDDDNM

251/2682
FIGURE 232

ATTCTGAGCCGAGCCCGGTGCCAAGCGCAGCTAGCTCAGCAGGCGGCAGCGCGGCCTGAGCTTCAGGGCAGCCA
GCTCCTCCCGGTCTCGCCTTCCTCGCGGTCAGCATGAAAGCCTTCAGTCCCGTGAGGTCCGTTAGGAAAAACAGC
CTGTCGGACCACAGCCTGGGCATCTCCCGGAGCAAACCCCTGTGGACGACCCGATGAGCCTGCTATACAACATG
AACGACTGCTACTCCAAGCTCAAGGAGCTGGTGCCCGAGCATCCCCAGAACAAGAAGGTGAGCAAGATGGAAATC
CTGCAGCACCTCATCGACTACATCTTGGACCTGCAGATCGCCCTGGACTCGCATCCCACTATTGTCAGCCTGCAT
CACCAGAGACCCGGGCAGAACCCAGCGCTCCAGGACGCGCTGACCACCCTCAACACGGATATCAGCATCCTGTCC
TTGCAGGCTTCTGAATTCCTTCTGAGTTAATGTCAAATGACAGCAAAGCACTGTGTGGCTGAAATAAGCGGTGTT
CATGATTTCTTTTATTCTTTGCACAACAACAACAACAATTCACGGAATCTTTTAAGTGCTGAACTTATTTT
TCAACCATTTCACAAGGAGGACAAGTTGAATGGACCTTTT

252/2682

FIGURE 233

MKAFSPVRSVRKNSLSDHSLGISRSKTPVDDPMSLLYNMDCYSKLELVPSIPQNKVKMEILQHLIDYILDL
QIALDSHPTIVSLHHQRPQGNQRSRTPLTTLNTDISILSLQASEFPSEIMSNDSKALCG

253/2682
FIGURE 234A

ATTGCAACACATGCAGCTGCCTGGAGAGAGGGAGCCGGTGTCTACGTGAGAGCCGCCGCCGCCGAGCCGCCG
CCGGGGAGGAGCAGCCGCTGCCGCCCAGGACTGGGCCCTTAGGGAGGAGGAGGCGAGAAGATGGCGGACGACCCC
AGTGCTGCCGACAGGAACGTGGAGATCTGGAAGATCAAGAAGCTCATTAAAGAGCTTGGAGGCGGCCGCCGCAAT
GGCACCAGCATGATATCATTGATCATTCTCCCAAAGACCAGATTTCACGAGTGGCAAAAATGTTAGCGGATGAG
TTTGGAACTGCATCTAACATTAAGTCACGAGTAAACCGCCTTTCAGTCCTGGGAGCCATTACATCTGTACAACAA
AGACTCAAACCTTTATAACAAAGTACCTCCAAATGGTCTGGTTGTATACTGTGGAACAATTGTAACAGAAGAAGGA
AAGGAAAAGAAAGTCAACATTGACTTTGAACCTTTCAAACCAATTAATACGTCATTGTATTTGTGTACAACAAA
TTCCATACAGAGGCTCTTACAGCACTACTTTAGATGATAGCAAGTTTGGATTCAATGTAATAGATGGTAGTGGT
GCACTTTTTTGGCACACTCCAAGGAAACACAAGAGAAGTCCTGCACAAATTCAGTGTGGATCTCCCAAAGAAACAC
GGTAGAGGAGGTGAGTCAGCTCAGCCTTGCCTTTTGCCCGTTAAGAATGGAAAAGCGACATAACTATGTTTCGAAAGTA
GCAGAGACTGCTGTGCAGCTGTTTATTTCTGGGGACAAAGTGAATGTGGCTGGTCTAGTTTTAGCTGGATCCGCT
GACTTTAAACTGAACTAAGTCAATCTGATATGTTTATGATCAGAGGTTACAATCAAAAGTTTTAAATTAGTTGAT
ATATCCTATGGTGGTGAAAATGGATTCAACCAAGCTATTGAGTTATCTACTGAAGTCCTCTCCAACGTGAAATTC
ATTCAAGAGAAGAAATTAATAGGACGATACTTTGATGAAATCAGCCAGGACACGGGCAAGTACTGTTTTGGCGTT
GAAGATACACTAAAGGCTTTGGAAATGGGAGCTGTAGAAATCTAATAGTCTATGAAATCTGGATATAATGAGA
TATGTTCTTCATTGCCAAGGCACAGAAGAGGAGAAATCTCTATCTAATCCAGAGCAAGAAAAGGATAAATCT
CATTTCACAGACAAAGAGACCGGACAGGAACATGAGCTTATCGAGAGCATGCCCTGTTGGAATGGTTTGTCAAC
AACTATAAAAAATTTGGAGCTACGTTGGAATTTGTACAGATAAATCACAAGAAGGGTCTCAGTTTGTGAAAGGA
TTTGGTGGAAATGGAGGTATCTTGCCTACCGAGTAGATTTCCAGGGAATGGAATACCAAGGAGGAGACGATGAA
TTTTTTGACCTTGATGACTACTAGGTAGTCGACATGGGTCCGGCAAAACGTGCCTCACCTCCAGCATCCAACCC
AAGGAGCATACCCATGGTGAATCCAAACAGATCCCTGCCTTACAATTGGAACATTTCCAGAACTTAATCCATGA
AGCAGCCTACAAGTTCTTAAACGCCACTTTGGACTAATTTAAAAAAGAAATCCAGTTTTACTTTTACTGG
ATGGTGAAATGGTTGCTCTTGTATTTTATGAAAAAATGATTTTTTTAACCTTCATACATAGAAGCAAAAATA
CTTTAACTGCTGTAAACCTTCAAAAGTTAATAGAAGTGAGATCATACTGGTTTGTCTTATTTTATTGATTGGAGAA
AAATTAATTTGCTGCATTTCGCAGTGACCCATTTACATGGCATTCTCAGCTTAGACTGCGTAAGAAGAAATATAT
GTGGTGAAATGTTGGAACCATTTCTCTCTTGGTCTCTGTTTAAATGTTGAAAGGGTGAGCTAATAGGAGGCATTT
CAACTTCACTCCCTCACGCTACCCCGTCCCCCTCCAGACTGGCAGTTTCAAGGATGCAAAATGCATTGCAAAATC
AAACTGACTCATGAAGCATTGGGCCAGTGCACTGTTTACTTCCATCTGTTTGCAGACACATTTGTGCCCGGCGT
TTGGGAGCCCTTTGTATCAATGTTCTGACAAGGGTCCCTATAACCTTAACCTACTCGAAACCGGTTTGGGATGGA
TATGATGGGCTTCTGTGCTATTGCTGGGATTGGGAGAAATAAAACATGCAATTTAAGTGGAAGCGAAGAAATTT
AAAGAGGATTTTATTTTGGCTTGGGTCAATCCTTGTTAAAGGGAGGTGGATGTGTTTCTTGTGTGGATGGCAT
GAGATTATGTAATGTTTTGATTTATTAATGAAGTGAAGGTTTTTCACAGGAACGACAGACATGTATGACTG
CATGTAATTATAAACTCCTGACCTCCTGGTGGGTTGGAGCATCTGTTTCAATGTGGGACTTACAAGCACTTCT
CACATGAGAAATTAGGGGCGGGTGGGAAGGGATGGGACACAGCTTCTGGCACCATGGATTTAAGACCATGTTGGA
TCCAAAAGTTGGCCTGAAACCTGAAGCTGATGCTTACAGCTGGGCTGTAAGTCAGACTGAACCCAGCTGATA
TGCAAGGTGATGGCGTGCCAGGGTGGTGACAGTTGAACAAAGTGTATAGTACGTGCCAGTGGTAGCGATGGAAA
AAAGTATACCAAATGGACTTTGAAGGACCAAAGGTTTTAAAGTCAATTGGTATCACCTCCACACTGACTAGGGT
AGTGGGGTGCAATTTGGTTTTCAAATGGGTACTTTTAAACCTTTAGTGCCTGACTGCTGTTCTTTACTGACTTGA
TTCAGTCACTCGTAGCTTTATTGGTCTGAACAGCTCCTTGTTCAGGTTACAGACCTGCCTATCGTTCCAATA
ATCCTGTTTCACTTGAATGAAGGAGTATGTCTTAAATGTAAAGTTTCTGGTTCTCACACTGTACTCTGAGGTCC
AAATACTGTCTGTAATGTGTAACCTGATGTCTCAACCCCTGTGAGAAGAGTCCATTATTTGGTGTTCACCAAC
GTGGGAGACTTCACCGGAACAGGCTTTTTTGCTTTGGGCTCTGCTATTGTTTGCAGAACCCCAAGAGCGAGCA
AACACGCTCTCTTACAGCAGTACCTTAGGGTTTTGCCATTGTAAATGGGTCTGATGTGATATGACAAGACCAGA
GAAATGGATGTAAATTTACATTTTGAATATGCTTGTGTTTACATGATACATTTAGGGTATGCAGCTCCTTT
TGTAGTTTTTATTTTACTATTTAAGTTTGGAAATGATGCCAAATTTTGTATTTCTTTAATCAATGTGTTCTCT
TCGGTGATATATATTGCATTATATATTGATGTGTGTATCAATATATATTGATATGTATTACACTTACACATACAA
ACACATATAAGAGGGGGTGAACCCGTAGCCTTTGCATTCTCTATAGCCTCTGCAGAGAGATACTAAGCAGCAAA

254/2682
FIGURE 234B

ATCTTGGTGTGTGATGTACAGAAATGGAGAAGAGTATTAAACCATATTTAAG

255/2682
FIGURE 235

MADDP SAADRNVEIWKIKKLIKSLAARGNGTSMISLIIPPKDQISRVAKMLADEFGTASNIKSRVNRLSVLGAI
TSVQQRLKLYNKVPPNGLVVYCGTIIVTEEGKEKKVNIDFEPFKPINTSLYLCDNKFHTEALTALLSDDSKFGFIV
IDGSGALFGTLQGNTREVLHKFTVDLPKKHGRGGQSALRFARLRMEKRHNYVRKVAETAVQLFISGDKVNVAGLV
LAGSADFKTELSQSDMFDQRLQSKVLKLVDISYGGENGFNQAIELSTEVL SNVKF IQEKKLIGRYFDEISQDTGK
YCFGVEDTLKALEMGAVEILIVYENLDIMRYVLHCQGTEEEKILYLTPEQEKDKSHFTDKETGQEHELIESMPLL
EWFANNYKKFGATLEIVTDKSQEGSQFVKGFGGIGILRYRVDFQGMEYQGGDDEFFDLDDY

256/2682
FIGURE 236

TGCTGCGAACCACGTGGGTCCCGGGCGCGTTTTCGGGTGCTGGCGGCTGCAGCCGGAGTTCAAACCTAAGCAGCTG
GAAGGAACCATGGCCAACGTGTGAGCGTACCTTCATTGCGATCAAACCAGATGGGGTCCAGCGGGGTCTTGTGGGA
GAGATTATCAAGCGTTTTGAGCAGAAAGGATTCCGCCTTGTTGGTCTGAAATTCATGCAAGCTTCCGAAGATCTT
CTCAAGGAACACTACGTTGACCTGAAGGACCGTCCATTCTTTGCCGGCCTGGTGAAATACATGCACTCAGGGCCG
GTAGTTGCCATGGTCTGGGAGGGGCTGAATGTGGTGAAGACGGGCCGAGTCATGCTCGGGGAGACCAACCCTGCA
GACTCCAAGCCTGGGACCATCCGTGGAGACTTCTGCATACAAGTTGGCAGGAACATTATACATGGCAGTGATTCT
GTGGAGAGTGCAGAGAAGGAGATCGGCTTGTGGTTTCACCCTGAGGAACTGGTAGATTACAGAGCTGTGCTCAG
AACTGGATCTATGAATGACAGGAGGGCAGACCACATTGCTTTTACATCCATTTCCTTCCCATGGGCAGA
GGACCAGGCTGTAGGAAATCTAGTTATTTACAGGAACTTCATCATAATTGGAGGGAAGCTCTTGAGCTGTGAG
TTCTCCCTGTACAGTGTTACCATCCCCGACCATCTGATTAAATGCTTCCTCCCAGC

257/2682
FIGURE 237

MANCERTFIAIKPDGVQRLVGEIIKRFEQKGFRLVGLKFMQASEDLLKEHYVDLKDRPFFAGLVKYMHS GPVVA
MVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVESAEKEIGLWFHPEELVDYTSCAQNW I
YE

258/2682
FIGURE 238

CCGCCATTTTGTGAGAAGCAAGGTGGCCTCCACGTTTCTGAGCGTCTTCTTCGCTTTTGCTCGACCGCCCTT
GACCACAGACATGTCCTCGGGATCGGTTCCGGAGTCGTGGCGGTGGCGGTGGTGGCTTCCACAGGCGTGGAGGAGG
CGGCGGCCGCGGCGGCTCCACGACTTCCGTTCTCCGCCCGCGCATGGGCTCAATCAGAATCGCGGCCCCAT
GGGTCTTGGCCCGGGCCAGAGCGGCCCTAAGCCTCCGATCCCGCCACCGCCTCCACACCAACAGCAGCAACAGCC
ACCACCGCAGCAGCCACCGCCGACGAGCCGCCACCGCATCAGCCGCCCGCATCCACAGCCGCATCAGCAGCA
GCAGCCGCCGCCACCGCCGAGGACTCTTCCAAGCCGTCGTTGCTCAGGGACCGGCCCCGCTCCCGGAGTAGG
CAGCGCACCACAGCCTCCAGTCGGCCCCCGCCGCCACTCCACCAACCTCGGGGGCCCCGCCAGGGTCCGGGCC
AGGCCCCGACTCCGACCCCGCCGCTGCAGTCACCTCGGCCCTCCCGGGCGCGGCCACCCACCCGCCAAGCAG
CGGGGTCCCTACCACACCTCTCAGGCCGGAGGCCCGCCGCTCCGCCCGCGCAGTCCCGGGCCCCGGTCCAGG
GCCTAAGCAGGGCCCAGGTCCGGGTGGTCCCAAAGCGGCAAAATGCCITGGCGGGCCGAAGCCAGGTGGCGGCC
GGGCCTAAGTACGCTGGCGGCCACCCCAAGCCGCCATCGAGGCGCGGGGAGCCCCGCGGGGGCCGCCAGCA
CCACCCGCCCTACCACAGCAGCATCACCAGGGGGCCCCGCCCGCGGGCCCGCGGCCGAGCGAGGAGAAGAT
CTCGGACTCGGAGGGGTTAAAGCCAATTTGTCTCTCTTGAGGAGGCCCTGGAGAGAAACTTACACACAGCGATG
TCGCTTGTGTTGGGAATCTACCTGCTGATATCAGGAGGATGAATTCAAAAGACTATTTGCTAAATATGGAGA
ACCAGGAGAAGTTTTATCAACAAAGGCAAAGGATTTCGATTTATTAAGCTTGAATCTAGAGCTTTGGCTGAAAT
TGCCAAAGCCGAATGGATGATACACCCATGAGAGGTAGACAGCTTCGAGTTCGCTTTGCCACACATGCTGCTGC
CCTTCTGTTCGTAATCTTTCACCTTATGTTTCCAATGAAGTGTGGAAGAAGCCTTTAGCCAATTTGGTCTTAT
TGAAAGGGCTGTGTAATAGTGGATGATCGTGGAAGATCTACAGGAAAGGCATTGTTGAATTTGCTTCTAAGCC
AGCAGCAAGAAAGGCATTTGAACGATGCAGTGAAGGTGTTTTCTTACTGACGACAACCTCCTCGTCCAGTCATTGT
GGAACCACTTGAACAACCTAGATGATGAAGATGGTCTTCTGAAAAACTTGCCAGAAGAATCCAATGTATCAAAA
GGAGAGAGAAACCCCTCCTCGTTTTGCCAGCATGGCACGTTTGAGTACGAATATTCTCAGCGATGGAAGTCTTT
GGATGAAATGAAAAACAGCAAGGGAACAAGTTGAAAAAACATGAAAGATGCAAAAGACAAATTGAAAGTGA
AATGGAAGATGCCTATCATGAACATCAGGCAAAATCTTTTGCGCCAAGATCTGATGAGACGACAGGAAGAATTAAG
ACGCATGGAAGAACCTCACAATCAAGAAATGCAGAAACGTAAGAAATGCAATTGAGGCAAGAGGAGGAACGACG
TAGAAGAGAGGAAGAGATGATGATTCTCAACGTGAGATGGAAGAACAATGAGGCGCCAAAGAGAGGAAAGTTA
CAGCCGAATGGGCTACATGGATCCACGGGAAAGAGACATGCGAATGGGTGGCGGAGGAGCAATGAACATGGGAGA
TCCCTATGGTTTCAAGAGGCCAGAAATTTCCACCTTAGGAGGTGGTGGTGGCATAGGTTATGAAGCTAATCCTGG
CGTTCCACCAGCAACCATGAGTGGTTCCATGATGGGAAGTGACATGCGTACTGAGCGCTTTGGGCAGGGAGGTGC
GGGGCCTGTGGGTGGACAGGGTCTTAGAGGAATGGGGCCTGGAACCTCAGCAGGATATGGTAGAGGGAGAGAAGA
GTACGAAGGCCCAAAACAAAAACCCGATTTTACATGTGATATTTAGGCTTTTATTCCAGTTTGTGTTTTTT
TGTTTAGATACCAATCTTTAAATCTTGCAATTTAGTAAGAAAGCTATCTTTTATGGATGTTAGCAGTTTATT
GACCTAATATTTGTAATGGTCTGTTTGGGCAGGTAAAATTATGTAATGCAGTGTGGAACAGGAGAATTTTTT
TTTCTTTTTATTTCTTTATTTTTCTTTTTTACTGTATAATGTCCCTCAAGTTTATGGCAGTGTACCTTGTC
ACTGAATTTCCAAAGTGTACCAATTTTTTTTTTTTACTGTGCTTCAAATAAATAGAAAAATAGTTATAATATTG
GATCTTCAACTTTGCCATTGCTTCTATGCATATTAGGCTACGTATTCCACATTGAAAGCATGAGAGTGTCTA
GGCCTTTGAATGGCATATGCCATTTCTGGGAATGCATCTGGAGGCTAAGTATTGCTTTCTACAAATAATTGCC
CCTTTGTTTTTAAAAAGAAGAAATGCATATTGAAGTAGTTTGATGATTTGTTTGGCATATAGGAAGCACGCTGGTG
CTAAGTATTTTTTAAATGGTTATGTAAGCAAAGCTGAACTGTAAATCTTCAGGAATATGTATTAAGATTGTGGAA
TGGGTGTAAGACAATTGGTAGGGGTGAAAGTGGGTTTGATTAATGGATCTTTTATGGCCCTATGATCTATCCT
TTACTTGAAAGCTTTTGAAGTGGAAAGTCAATTTGTTGCATTCCCCATTTCTGTTTTTAAAGACCAACA
AATCTCAAGCCCTATAAATGGCTTGATTGAACCTTTACATTTGAATTAAGATGTTAAACATGAAAAAA

259/2682
FIGURE 239

MSRDRFRSRGGGGGGFHRRGGGGGRGGLHDFRSEPPPMGLNQNRGPMGPGPGQS GPKPPIPPPPPHQQQQQPPPO
QPPPOQPPPHQPPPHQPHQQQPPPPPPQDSSKEVVAQGPAPGVGSAPPASSSAPPATPPTSGAPP GSGPGPT
PTPPPAVTSAPP GAPPPTPPSSGVPTTPPQAGGPPPPAAVPGPGPGPKQGP GPGGPKGGKMPGGPKPGGGPGLS
TPGGHPKPPHRGGGEPRGGRQHHPYHQHHQGPPPGGPGGRSEEKISDSEGFKANLSLLRRPGEKTYTQRCRLF
VGNLPADITEDEFKRLFAKYGEPEGVFINKGKGFIFIKLESRALAEIAKAELDDTPMRGRQLRVRFATHAAALSV
RNLSPIVSNELLEAFSQFGPIERAVVIVDDRGRSTGKGIVEFASKPAARKAFERCSEGVFLTTTTPRPVIVEPL
EQLDDEDGLPEKLAQKNPMYQKERETPPRFAQHGTFEYEYSQRWKS LDEMEKQQREQVEKNMKDAKD KLESEMED
AYHEHQANLLRQDLMRQEELRRMEELHNQEMQKRKEMQLRQEEERRRREEEMMIROREMEEQMR RQREESYSRM
GYMDPRERDMRMGGGGAMNMGDPYSGGGQKF PPLGGGGGIGYEANPGVPPATMSGSMMSGDMRTERFGQGGAGPV
GGQGRGMGPGTPAGYGRGREEYEGPNKKPRF

260/2682
FIGURE 240

GCCCGTCCCGCCGCCCCGCCAGCCATGAGCTCCACGCAGTTCAACAAGGGCCCCCTCGTACGGGCTGTGGCC
GAGGTCAAGAACCGGCTCCTGTCCAAATATGACCCCCAGAAGGAGGCAGAGCTCCGCACCTGGATCGAGGGACTC
ACCGGCCTCTCCATCGGCCCCGACTTCCAGAAGGGCCTGAAGGATGGAACCTATCTTATGCACACTCATGAACAAG
CTACAGCCGGGCTCCGTCCCCAAGATCAACCGCTCCATGCAGAACTGGCACCAGCTAGAAAACCTGTCCAACCTC
ATCAAGGCCATGGTCAGCTACGGCATGAACCTGTGGACCTGTTGAGGCCAACGACCTGTTTGAGAGTGGGAAC
ATGACGCAGGTGCAGGTGTCTCTTCTCGCCCTGGCGGGGAAGGCCAAGACTAAGGGGCTGCAGAGCGGGGTGGAC
ATTGGCGTCAAGTACTCGGAGAAGCAGGAGCGGAATTTGACAGATGCCACCATGAAGCTGGCCAGTGCCTCATC
GGGCTGCAGATGGGCACCAACAAATGCGCCAGCCAGTCGGGCATGACTGCCTACGGCAGGAGAAGGCATCTCTAT
GACCCCAAGAACCATATCCTGCCCCCATGGACCACTCGACCATCAGCCTCCAGATGGGCACGAACAAGTGGCC
AGCCAGTGGGCATGACGGCTCCCGGGACCCGGCGGCACATCTATGATACCAAGCTGGGAACCGACAAGTGTGAC
AACTCCTCCATGTCCCTGCAGATGGGCTACACGCAGGGCGCCAACCAGAGCGGCCAGGTCTTCGGCCTGGCCGG
CAGATATATGACCCCAAGTACTGCCCGCAAGGCACAGTGGCCGATGGGGCTCCCTCGGGCACCGGCGACTGCCCG
GACCCGGGGGAGGTCCCTGAATATCCCCCTTACTACCAGGAGGAGCGGGCTACTGAGGCTCCAGCACGCTCTC
TCCCCACATCGTCTTCCCATCTGGGTTTTTGGGTTTTTCTGTGTTTTTCATCTTTTTTTTTTTTTTTTGTGACCCG
TTCAGTGTGCCAGTCAACCAAGGGTCTGTGAGTGTGAGCGTGGGATCAGGCAGCAGAGCTTTTTTCCCCTTTGC
CTTGATCCTTCGCAAGGCTGAGCCACTGGGCTGTGGGGGAAGGGTCAAGGCCATATCCCAATACGTGTAGGGCG
AGGGTCCCTGCTGGCACATTCAGGCTGTGCTGGGAAGAAGAGACCTGGGCTTGGAAGGAACCGGTCCCCGACGGT
TTCTGTTGCTCGCCTCTTCCCCCTTTTGTGAGCTGAGCAGTTTGTGGTTTTCTATGCCCGCAAGTTTCAGGAAG
TATTCACAAAAGAAAAATACATTTTTTCCCCCAGGGGTGGGGCAAGGACAGTGGAGAGAGTGCTAGGAAATGAGT
CCCCTGGGAAAGGGGACCGGGCCGTGATGTTAAATATCTCCGGCTCCCAAGTGAAGTGGATTGCTTAGGACCTTC
AGATCAACAGACTTCAGACCTCAGACCTGCCCGGGGCCAGGTGGAGAAAGTGAAGGGCCGTACAAGGAAGTGAA
ATTCTGAGTTGTTGGGGCTAAGCCTGACCCCTCTCCATGCTCCCCGCCCAACTCACTCTGGCCTCAGTAGATT
TTTTTTTTCAGTTGTGGTTGTTGCCAGGCTGGAGTGCAGTGGCGCCATCTTGGCTCACTGCACCTCCACCTTCCG
GGCTCAAGCGATTCTCCAGCCTCAGCCTCCTGAGTAGCTAGGACTGCAGGTGCTCCACCACGCGCGGCTAATTTT
TGTATTTTTAGTAGAGATGGGGTTTTCCCATGTTGGCCAGGCTGGTCTCGAACTCCTGGCCTCAGGTGTGATCCG
CCCGCCTCCGCTCCCCAAGCGCTGAGATTACAGGTGTGAGCCACCGTGGCCAGGCCCTCAGTAGGTTTTAAGGA
GTCCCCAGCCCTCCTCCCTTCTGGGCCCCGACCAGCTTATACTGCTCCATCTTCCCCGGCCACATGCCCCGCCAAG
TACTGCACAGGGACCCCCACCCAGGGGCCCTGCTCCGTGAGATAATGTGAAATACGACTGTGGACCAAACGCAA
TAAAACCTTTGTTTGTAGGAAG

261/2682
FIGURE 241

MSSTQFNKGPSYGLSAEVKNRLLSKYDPQKEAELRTWIEGLTGLSIGPDFQKGLKDGITILCTLMNKLQPGSVPKI
NRSMQNWQHLENLSNFIKAMVSYGMNPVDLFEANDLFESGNMTQVQVSLALAGKAKTKGLQSGVDIGVKYSEKQ
ERNFDDATMKAGQCVIGLQMGTKNCASQSGMTAYGTRRHLYDPKNHILPPMDHSTISLQMGTKNCASQVGMTAPG
TRRHIYDTKLGTDKCDNSSMSLQMGYTQGANQSGQVFGGLGRQIYDPKYCPQGTVADGAPSGTGDCPDGGEVPEYP
PYYQEEAGY

262/2682
FIGURE 242

CTGAAGATGCGGGCTGCTGTAGGACGGTTGCTCCGAGCGTCGGTTGCCCGACATGTGAGTGCCATTCCCTTGGGGC
ATTTCTGCCACTGCAGCCCTCAGGCCTGCTGCATGTGGAAGAACGAGCTTGACAAATTTATTGTGTTCTGGTTCC
AGTCAAGCAAATTTATTTCAGCACCAGTTCCCTCATGCCATGCACCTGCTGTCAACCAGCATGCACCTATTTTAAG
GGTACAGCCGTTGTCAATGGAGAGTTCAAAGACCTAAGCCTTGATGACTTTAAGGGGAAATATTGGTGCTTTTC
TTCTATCCCTTGGATTTACCTTTGTGTGTCTACAGAAATTGTTGCTTTTAGTGACAAAGCTAACGAATTTAC
GATGTGAACGTGTGAAGTTGTCGCAGTCTCAGTGGATTCCCACTTTAGCCATCTTGCCCTGGATAAATACACCAAGA
AAGAATGGTGGTTTGGGCCACATGAACATCGCACTCTTGTGAGACTTAAGCAGATTTCCTGAGACTACGGT
GTGCTGTTAGAAGGTTCTGGTCTTGCACTAAGAGGTCTCTTCATAATTGACCCCAATGGAGTCATCAAGCATTTG
AGCGTCAACGATCTCCAGTGGGCCGAAGCGTGGAGAAACCTCCGCTTGGTGAAGGCGTTCCAGTATGTAGAA
ACACATGGAGAAGTCTGCCAGCGAAGTGGACACCGGATTCTCCTACGATCAAGCCAAGTCCAGCTGCTTCCAAA
GAGTACTTTTCAAGAAGTAAATCAGTAGATCACCCTGTGTATCTGCACCTTCTCAACTGAGAGAAGAACCACAGT
TGAAACCTGCTTTTATCATTTTCAAGATGGTTATTTGTAGAAGGCAAGGAACCAATTATGCTTGTATTTCATAAGT
ATTACTCTAAATGTTTTGTTTTGTAATTCTGGCTAGGACCTTTTAAACATGGTTAGTTGCTAGTACAGGAATCG
TTTATTGGTAACATCTTGGTGGCTGGCTAGCTAGTTTCTACAGAACATAATTTGCCTCTATAGAAGGCTATTCTT
AGATCATGTCTCAATGGAAACACTCTTCTTTCTTAGCCTTACTTGAATCTTGCCTATAATAAAGTAGAGCAACAC
ACATTGAAAGCTTCTGATCAACGGTCTGAAATTTTCATCTTGAATGTCTTTGTATTAACTGAATTTTCTTTTA
AGCTAACAAAGATCATAATTTTCAATGATTAGCCGTGTAACCTCTGCAATGAATGTTTATGTGATTGAAGCAAAT
GTGAATCGTATTATTTTAAAAAGTGGCAGAGTGACTTAACTGATCATGCATGATCCCTCATCCCTGAAATTGAGT
TTATGTAGTCATTTTACTTATTTTATTCATTAGCTAACTTTGTCTATGTATATTTCTAGATATTGATTAGTGTA
TCGATTATAAAGGATATTTATCAAATCCAGGGATTGCATTTTGAAATTATAATTATTTTCTTGTGCTGAAGTATTC
ATTGTAAACATACAAATAACATATTTAAACAAAAA

263/2682

FIGURE 243

MAAAVGRLLRASVARHVSATPWGISATAALRPAACGRTSLTNLLCSGSSQAKLFSTSSSCHAPAVTQHAPYFKGT
AVVNGEFKDLSLDDFKGKYLVLFFYPLDFTFVCPTEIVAFSDKANEFHDVNCEVVAVSVDSHFSLAWINTPRKN
GGLGHMNIALLSDLTKQISRDYGVLLLEGSGLALRGLFIIDPNGVIKHLVNDLPVGRSVEETLRLVKAFQYVETH
GEVCPANWTPDSPTIKPSPAASKEYFQKVNQ

264/2682
FIGURE 244

TGCCCGGAATTCCGGGGAGGGAGAAGCCCCCTTTGGCCTGCCTTACGGAAGCCTGCGAGGGAGGGTGGTGTCCACT
GCCCAGTTCCGTGTCCCGATGCCCAGCGCCACGCAGCGCAAGAGTCAGGAGAAGCCGCGGGAGATCATGGACGCG
GCGGAAGATTATGCTAAAGAGAGATATGGAATATCTTCAATGATACAATCACAAGAAAAACCAGATCGAGTTTG
GTTCCGGGTTAGAGACTTGACAATACAAAAAGCTGATGAAGTTGTTTGGGTACGTGCAAGAGTTCATACAAGCAGA
GCTAAAGGGAAACAGTGCTTCTTAGTCCTACGTACAGCAGCAGTTTTAATGTCCAGGCTCTTGTGGCGGTGGGAGAC
CATGCAAGCAAGCAGATGGTTAAATTGCTGCCAACATCAACAAAGAGAGCATTGTGGATGTAGAAGGTGTTGTG
AGAAAAGTGAATCAGAAAATTGGAAGCTGTACACAGCAAGACGTTGAGTTACATGTTTCAAGATTATGTGATC
AGTTTGGCTGAACCCCGTCTGCCCTGCAGCTGGATGATGCTGTTCCGGCTGAGCAAGAAGGAGAAGAGGAAGGA
AGAGCTACTGTTAACCAGGATACAAGATTAGACAACAGAGTCATTGATCTTAGGACATCAACTAGTCAGGCAGTC
TTCCGTCTCCAGTCTGGCATCTGCCATCTCTTCCGAGAACTTTAATTAACAAAGGTTTTGTGGAAATCCAACT
CCTAAAATTATTTAGCTGCCAGTGAAGGAGGAGCAATGTTTTTACTGTGTCATATTTTAAAAATAATGCATAC
CTGGCTCAGTCCCCACAGCTATATAAGCAAATGTGCATTGTGCTGATTTTGAGAAGGTTTTCTCTATTGGACCA
GTATTCAGAGCGGAAGACTCTAATACCCATAGACATCTAACTGAGTTTGTGGTTTTGGACATTGAAATGGCTTTT
AATTACCATTACCAGAAAGTTATGGAAGAAATTGCTGACACCATGGTACAAATATTCAAAGGACTTCAAGAAAGG
TTTCAGACTGAAATCAAACAGTGAATAAACAGTTCCCATGTGAGCCATTCAAATTTTTGGAGCCAACTCTAAGA
CTAGAATATTGTGAAGCATTGGCTATGCTTAGGGAAGCTGGAGTCGAAATGGGAGATGAAGACGATCTGAGCACA
CCAAATGAAAAGCTGTTGGGTCAATTTGGTAAAGGAAAAGTATGATACAGATTTTATATTCTTGATAAAATATCCA
TTGGCTGTAAGACCTTTCTATACCATGCCTGACCCAAGAAATCCCAAACAGTCCAAGTCTTACGATATGTTTCATG
AGAGGAGAAGAAATATTGTCAGGAGCTCAAAGAATACATGATCCTCAACTGCTAACAGAGAGAGCTTTACATCAT
GGAAATGATTTGGAGAAAATTAAAGGCTTACATTGATTCCCTCCGCTTTGGAGCCCCCTCCTCATGCTGGTGGAGGC
ATTGGATTGGAACGAGTTACTATGCTGTTTCTGGGATTGCATAATGTTTCGTACAGACCTCCATGTTCCCTCGTGAT
CCCAAACGACTCACTCCTTAAATTACACTTTGCCACTTAACTCCAGTGTGGATGACAGAGCGAGACCCCTGCCTC
AAAGAAAGCCACACTT
ATTCTTTTCAGTAACCTGCTAGTGCACAGGCTGTACTTTAGGTACTTAAATATGCACTAGAATAAATTTGCAAG
GCCCTAAATATCACTGTTATTTTGGAGTAATTCAGTATAGGTTGTTTTAAAGAGATTTTATAACTTCAGAC
ATGCATCAGTAGGAAATAACTTGAGAAATTCATATGGTTATGTTACAAATTCATATTCTGTTACTACAGTAAACG
TTAAGAGTTTTAAACAGTTAAGATTGTACAATTTTCTTCTTTCTATATTACAAGGGCCCCAGTGTTAATGTCT
TAGATTTTCAGTATTTGAACCTATTTTTTAAATTCTGTCAATTGAGATAAGAATAATTCAGGTAGCATCTGAAAT
TTAATGAATGTATAATTGGCATATCATGGAAAATTAACCAGAAAGTATCAGTTCTTAAAGTTATGCCTAGAAA
TTATGTAAAGCTAAACTACTGGTTAGAAAGTATTCAGTGTAATATTGTATTAAATTTGTAAATTCTAAACTTGAA
TTTCAATAAAATTTTAAAGCT

265/2682
FIGURE 245

MPSATQRKSQEKPREIMDAAEDYAKERYGISSMIQSQEKPDRLVRVRDLTIQKADEVVWVRARVHTSRAKGKQC
FLVLRQQQFNVQALVAVGDHASKQMVKFAANINKESIVDVEGVVRKVNQKIGSCTQQDVELHVQKIYVISLAEPR
LPLQLDDAVRPEQEGEEGRATVNQDTRLNDRVIDLRTSTSQAVFRLQSGICHLFRETLINKGFVEIQTPKIISA
ASEGGANVFTVSYFKNNAYLAQSPQLYKQMCICADFEKVFSIGPVFRAEDSNTHRHLETFVGLDIEMAFNYHYHE
VMEEIADTMVQIFKGLQERFQTEIQTVNKQFPCEPFKFLEPTLRLEYCEALAMLREAGVEMGDEDDLSTPNEKLL
GHLVKEKYDTDFYILDKYPLAVRPFYTMPDPRNPKQSKSYDMFMRGEEILSGAQRIHDPQLLTERALHHGNDLEK
IKAYIDSFRFGAPPHAGGGIGLERVTMLFLGLHNVRQTSMFPRDPKRLTP

266/2682
FIGURE 246

ACTTGGCCTTACACTCCGCTCGGCTCACCATGTGTCACTCTCGCAGCTGCCACCCGACCATGACCATCCTGCAGG
CCCCGACCCCGCCCCCTCCACCATCCCGGGACCCCGCGGGGCTCCGGTCCTGAGATCTTCACCTTCGACCCTC
TCCCGAGCCCGCAGCGGCCCTGCCGGGCGCCCCAGCGCCTCTCGCGGCACCGAAAGCGCAGCCGAGGGTCT
CTCTACCCTCGAGTGGTGAGTATCGCCGAAGTGGGCATTGCGGGTGTGCGCTGCCCTGGAGTCACTGGGGAACGA
CCCGACTCCAGAGCCTCGACCTGACCTGTCTCCTGTTTTGTCTCCCCTTAGTCCGGCGCCAGCTGCCAGTCGAGG
AACCGAACCAGCCAAAAGGCTTCTCTTTCTGTGCTCACCATCGTCTTCTGCCAGATCCTGATGGCTGAAGAGG
GTGTGCCGGCGCCCCCTGCCTCCAGAGGACGCCCCTAACGCCGCATCCCTGGCGCCCACCCCTGTGTCCCCGTCC
TCGAGCCCTTTAATCTGACTTCGGAGCCCTCGGACTACGCTCTGGACCTCAGCACTTTCTCCAGCAACACCCGG
CCGCCTTCTTAACTGTGACTCCCCGCACTCCCCAAAAAGAATCCGAAAAACCACAAAGAAACACCAGGCGTACCTG
GTGCGCGAGAGCGTATCCCCAACTGGGACTTCCGAGGCAACTTGAACTCAGAACACTACAGCGGAGACGCCACCC
GGTGCTTGAGGCGGGACCGAGGCGCACAGAGACCGAGGCGCATAGAGACCGAGGCACAGCCAGCTGGGCTAGGC
CGGTGGGAAGGAGAGCGTCGTTAATTTATTTCTTATTGCTCCTAATTAATATTTATATGTATTTATGTACGTCCT
CCTAGGTGATGGAGATGTGTACGTAATATTTATTTAACTTATGCAAGGGTGTGAGATGTTCCCTCTGCTGTAAA
TGCAGGTCTCTTGGTATTTATTGAGCTTTGTGGGACTGGTGGAAGCAGGACACCTGGAAGTGGGCAAAGTAGGA
GAAGAAATGGGGAGGACTCGGGTGGGGGAGGACGTCCCGCTGGGATGAAGTCTGGTGGTGGGTCGTAAGTTAG
GAGGTGACTGCATCCTCCAGCATCTCAACTCCGTCTGTCTACTGTGTGAGACTTCGGCGGACCATTAGGAATGAG
ATCCGTGAGATCCTTCCATCTTCTTGAAGTCGCCTTTAGGGTGGCTGCGAGGTAGAGGGTTGGGGTTGGTGGGC
TGTCACGGAGCGACTGTGAGATCGCCTAGTATGTTCTGTGAACACAAATAAAATTGATTTACTGTCTGC

267/2682
FIGURE 247

MCHSRSCHPTMTILQAPTPAPSTIPGPRRGSGPEIFTFDPLPEPAAAPAGRPSASRGHRKRSRRVSLPSSGEYRR
SGHSRCALPWSHWGTTRLQSLDLTCLLFCLPLVRRQLPVEEPNPAKRLLFLLLTIVFCQILMAEEGVPAPLPED
APNAASLAPTPVSPVLEPFNLTSEPSDYALDLSTFLQQHPAAF

268/2682
FIGURE 248A

GC GCG ACCGT CCC GGG GGT GGG GCG GGG GCG CAG CGG CAG AGG AGG CGA AGGT GGG CTG CGG TAG CAG CAG CGCGG
CAG CCT CGG ACC CAG CCC GAG CGC AGG GCG GCG CTG CAG GT CCC CGT CCC CT CCC CGT GCG TCG CCC C **ATGG**
CCG CCG CCG GGG CAG CTG TGCT TGT CTAC CTG TCG CGG GGG CTCT GT CCC GGT CCG CGC AGC CTTC AACT TG
ACACT CGG GAG GACA ACG TGAT CCG GAA ATAT GGAG ACC CGG GAG CCTCT TCG GCT TCT CGT GGG CAT GCA CT
GGCA ACT GCA GCC GAG GACA AG CGG CTGT TGCT CGT GGG GGG CCG CGC GGA GAAG CGCTT CCA CTG CAG AGAG
CCA ACAGA ACG GGG AGG GGT GTAC AGCT GCG ACAT CAC CGCC GGG GGC ATG CAC GCG GAT CGAG TTT GATA ACG
ATG CTG ACC CAC GT CAG AAAG CAAG GAAG ATC AGT GGAT GGG GGT CAC CGT CCA GAG CCA AGGT CCA GGG GGC A
AGT CGT GAC ATGT GCT CAC CGAT ATG AAAAA AGG CAG CAT GTTA ATAC GAAG CAG GAAT CCC GAG ACATCT TTG
GGCG GTGT TAT GTCT GAGT CAGA ATCT CAG GATT GAAG AC GAT ATGG ATGG GGG AGATT GGAG CT TTT GTG ATG
GGCG ATT GAG AGG CAT GAG AAAT TTGG CTCT TGG CAG CAAG GTGTAG CAG CTACT TTT TACT AAAG ACT TTT CAT T
ACAT TGT ATTT GGAG CCG CCG GGT ACTTATA ACT GGA AAG GGT ATT GTTC GTGTAG AGCA AAA GAATA ACAC TTTT
TTGAC ATGA ACATCT TTGA AGAT GGG CCTTAT GAAG TTGGT GGG AGAG ACTGAG CATGAT GAAGTCT CGTTCCTG
TTCTGCTAACAGTTACTTAGGTTTTCTTTGACTCAGGGAAGGTATTGTTTCTAAAGATGAGATCACTTTTG
TATCTGGTGCTCCCAGAGCCAATCACAGTGGAGCGTGGTTTTGCTGAAGAGAGACATGAAGTCTGCACATCTCC
TCCCTGAGCACATATTCGATGGAGAAGGTCTGGCCTCTTCATTTGGCTATGATGTGGCGGTGGTGGACCTCAACA
AGGATGGGTGGCAAGATATAGTTATTGGAGCCCCACAGTATTTGATAGAGATGGAGAAGTTGGAGGTGCAGTGT
ATGCTACATGAACCAGCAAGGCAGATGGAATAATGTGAAGCCAATTCGTCTTAATGGAACCAAGATTCTATGT
TTGGCATTGCAGTAAAAATATTGGAGATATTAATCAAGATGGCTACCCAGATATTGCAGTTGGAGCTCCGTATG
ATGACTTGGGAAAGGTTTTATCTATCATGGATCTGCAATGGAATAAATACCAACCAACACAGGTTCTCAAGG
GTATATCACCTTATTTTGGATATTCAATTGCTGGAACATGGACCTTGATCGAAATTCCTACCCTGATGTTGCTG
TTGGTTCCCTCTCAGATTCAGTAATTTTTCAGATCCCGGCTGTGATTAAATTCAGAAAACCATCACAGTAA
CTCCTAACAGAATTGACCTCCGCCAGAAAACAGCGTGTGGGGCGCCTAGTGGGATATGCCTCCAGGTTAAATCCT
GTTTTGAATATACTGCTAACCCCGCTGGTTATAATCCTTCAATATCAATTGTGGGCACACTTGAAGCTGAAAAAG
AAAGAAGAAAATCTGGGCTATCCTCAAGAGTTCAGTTTCGAAACCAAGGTTCTGAGCCCAATATACTCAAGAAC
TAAC TCTGAAGAGGCAGAAACAGAAAGTGTGCATGGAGGAAACCTGTGGCTACAGGATAATATCAGAGATAAAC
TGCGTCCCATTCCCATAACTGCCTCAGTGGAGATCCAAGAGCCAAGCTCTCGTAGCGAGTGAATCACTTCCAG
AAGTCTTCCAATTCTGAATTCAGATGAACCAAGACAGCTCATATTGATGTTCACTTCTTAAAAGAGGGATGTG
GAGACGACAATGTATGTAACAGCAACCTTAACTAGAATATAAATTTGCACCCGAGAAGGAAATCAAGACAAAT
TTTCTTATTTACCAATTCAAAAAGGTGTACCAGAACTAGTTCTAAAAGATCAGAAGGATATTGCTTTAGAAATAA
CAGTGACAAACAGCCCTTCCAACCAAGGAATCCCAAAAAGATGGCGATGACGCCATGAGGCTAAACTGATTG
CAACGTTTCCAGACACTTTAACCTATTCTGCATATAGAGAACTGAGGGCTTTCCCTGAGAAACAGTTGAGTTGTG
TTGCCAACAGAAATGGCTCGCAAGCTGACTGTGAGCTCGGAAATCCTTTTAAAAGAAATTCAAATGTCACTTTTT
ATTTGGTTTTAAGTACA ACTGAAGTCACTTTGACACCCCATATCTGGATATTAATCTGAAGTTAGAAACAACAA
GCAATCAAGATAATTTGGCTCCAATTACAGCTAAAGCAAAAGTGGTTATTGAAGTGC TTTTATCGGTCTCGGGAG
TTGCTAAACCTTCCAGGTGTATTTGGAGGTACAGTTGTTGGCGAGCAAGCTATGAAATCTGAAGATGAAGTGG
GAAGTTTAATAGAGTATGAATTCAGGGTAATAAACTTAGGTAAACCTCTTACAAACCTCGGCACAGCAACCTTGA
ACATTCAGTGGCCAAAAGAAATTAGCAATGGGAAATGGTTGCTTTATTTGGTGAAAGTAGAATCCAAGGATTGG
AAAAGGTA ACTTGTGAGCCACAAAAGGAGATAAACTCCCTGAACCTAACGGAGTCTCACA ACTCAAGAAAGAAAC
GGGAAATTACTGAAAAACAGATAGATGATAACAGAAAATTTCTTTATTTGCTGAAAGAAAATACCAGACTCTTA
ACTGTAGCGTGAACGTGAAGTGTGTGAACATCAGATGCCCCTGCGGGGGCTGGACAGCAAGGCGTCTCTTATTT
TGCGCTCGAGGTTATGGAACAGCACATTTCTAGAGGAATATTCCAACTGAACTACTTGGACATTCTCATGCGAG
CCTTCATTGATGTGACTGCTGCTGCCGAAAATATCAGGCTGCCAAATGCAGGCACTCAGGTTTCGAGTGACTGTGT
TTCCCTCAAAGACTGTAGCTCAGTATTCGGGAGTACCTTGGTGGATCATCTAGTGGCTATTCTCGCTGGGATCT
TGATGCTTGCTTTTATAGTGT TATAC TATGGAAGTGTGGTTTCTTCAAGAGAAATAAGAAAGATCATTATGATG
CCACATATCACAAGGCTGAGATCCATGCTCAGCCATCTGATAAAGAGAGGCTTACTTCTGATGCATAGTATTGAT
CTACTCTGTAATTGTGTGGATTCTTTAAACGCTCTAGGTACGATGACAGTGTTCCCGATACCATGCTGTAAGG
ATCCGGAAGAAGAGCGAGAGATCAAAGATGAAAAGTATATTGATAACCTTGAAAAAAAACAGTGGATCACAAAG
TGGAACAGAAATGAAAGCTACTCATAGCGGGGGCTAAAAAAAAGCTTCACAGTACCCAACTGCTTTTTTC

269/2682
FIGURE 248B

CAACTCAGAAATTCAATTTGGATTAAAAAGCCTGCTCAATCCCTGAGGACTGATTTTCAGAGTGACTACACACAGT
ACGAACCTACAGTTTTAACTGTGGATATTGTTACGTAGCCTAAGGCTCCTGTTTTGCACAGCCAAATTTAAACT
GTTGGAATGGATTTTTCTTTAACTGCCGTAATTTAACTTTCTGGGTTGCCTTTGTTTTGGCGTGGCTGACTTAC
ATCATGTGTTGGGGAAGGGCCTGCCAGTTGCACTCAGGTGACATCCTCCAGATAGTGTAGCTGAGGAGGCACCT
ACACTCACCTGCACTAACAGAGTGGCCGTCTAACCTCGGGCCTGCTGCGCAGACGTCCATCACGTTAGCTGTCC
CACATCACAAGACTATGCCATTGGGGTAGTTGTGTTTCAACGGAAAGTGCTGTCTTAACTAAATGTGCAATAGA
AGGTGATGTTGCCATCTACCGTCTTTTCTGTTTCTAGCTGTGTGAATACCTGCTCAGTCAAATGCATACAA
GTTTCATTCTCCCTTTCACTAAAAACACACAGGTGCAACAGACTTGAATGCTAGTTATACTTATTTGTATATGGT
ATTTATTTTTCTTTTCTTTTACAAACCATTTTGTTATTGACTAACAGGCCAAAGAGTCTCCAGTTTACCCTTCAG
GTTGGTTTAAATCAATCAGAATTAGAATTAGAGCATGGGAGGGTCATCACTATGACCTAAATTTACTGCAAAA
AGAAAACTTTTATAAATGTACCAGAGAGAGTTGTTTTAATAACTTATCTATAAACTATAACCTCTCCTTCATGAC
AGCCTCCACCCACAAACCCAAAGGTTTAAAGAAATAGAATTATAACTGTAAAGATGTTTATTTTCAGGCATTGGAT
ATTTTTTACTTTTAGAAGCCTGCATAATGTTTCTGGATTTACATACTGTAACTTCAGGAATTCTTGGAGAAGATG
GGTTTATTCACTGAACTCTAGTGCGGTTTACTCACTGCTGCAATACTGTATATTTCAGGACTTGAAAGAAATGGT
GAATGCCTATGGAAGTAGTGGATCCAACTGATCCAGTATAAGACTACTGAATCTGCTACCAAAACAGTTAATCA
GTGAGTCGAGTGTTCTATTTTTTGTGTTTCTTCCCTATCTGTATTCCCAAAAATTACTTTGGGGCTAATTT
AACAGAAGCTTTAAATTGTGTTTTAATTGTAAAAATGGCAGGGGGTGGAATTATTACTCTATACATTCAACAGAG
ACTGAATAGATATGAAAGCTGATTTTTTTTAAATTACCATGCTTCACAATGTTAAGTTATATGGGGAGCAACAGCA
AACAGGTGCTAATTTGTTTGGATATAGTATAAGCAGTGTCTGTGTTTTGAAAGAAATAGAACACAGTTTGTAGTG
CCACTGTTGTTTTGGGGGGGGCTTTTTTCTTTTCCGGAAAATCCTTAAACCTTAAGATACTAAGGACGTTGTT
TTGGTTGTACTTGGAATTCCTAGTCACAAAATATATTTTGTTTACAAAATTTCTGTAAAACAGGTTATAACAGT
GTTTAAAGTCTCAGTTTCTTGCTTGGGGAACCTGTGTCCCTAATGTGTTAGATTGCTAGATTGCTAAGGAGCTGA
TACTTGACAGTTTTTTAGACCTGTGTTACTAAAAAAAGATGAATGTCGGAAAAGGGTGTGGGAGGGTGGTCAA
CAAAGAAACAAAGATGTTATGGTGTGTTAGACTTATGGTTGTTAAAAATGTCATCTCAAGTCAAGTCACTGGTCTG
TTTGCAATTTGATACATTTTGTACTAACTAGCATTGTAAAATTTTTCATGATTAGAAATTACCTGTGGATATTT
GTATAAAAGTGTGAAATAAATTTTTTATAAAAGTGTTCATTGTTTCGTAACACAGCATTGTATATGTGAAGCAA
CTCTAAAATTATAAATGACAACCTGAATTATCTATTTTCATCAAAAAAAAAAAAAAAAAAAAAA

270/2682
FIGURE 249

MAAAGQLCLLYLSAGLLSRLGAAFNLDTRDNVIRKYGDPGSLFGFSLAMHWQLQPEDKRLLLLVGAPRGEALPLQ
RANRTGGLYSCDITARGPCTRIEFDNDADPTSESKEDQWMGVTVQSOGPGGKVVTCAHRYEKQHVNTKQESRDI
FGRCYVLSQNLRIEDDMGGDWSFCDGRLRGHEKFGSCQQGVAATFTKDFHYIVFGAPGTYNWKGIVRVEQKNNT
FFDMNIFEDGPYEVGGETEHDES LVPVPANSYLGFSLD SGKGIVSKDEITFVSGAPRANHSGAVVLLKRDMSAH
LLPEHIFDGEGLASSFGYDVA VVDLNKDGWQDIVIGAPQYFDRDGEVGGAVYVYMNQQGRWNNV KPIRLNGTKDS
MFGIAVKNIGDINQDGYPDIAVGAPYDDLKGVFIYHGSANGINTKPTQVLKGISP YFGYSIAGNMDLDRNSYPDV
AVGSLSDSVTIFRSRPVINIQKTIITVTPNRIDL RQKTACGAPSGICLQVKSCFEYTANPAGYNPSISIVGTLEAE
KERRKSGLSSRVQFRNQSEP KYTQELTLKRQKQKVCMEETLWLQDNIRD KLRPIPI TASVEIQEPSSRRRVNSL
PEVLPILNSDEPKTAHIDVHFLKEGCGDDNVCNSNLKLEYKFC TREGNQDKFSYLP IQKGVPELV LKDQKDIALE
ITVTNPSNPRNPTKDGDDAHEAKLIATFPDTLTYSAYRELRAFPEKQLSCVANQNGSQADCELG NPFKRNSNVT
FYLVLSTTEVTFDTPYLDINLKLETTSNQDN LAPITAKAKVVI ELLLSVSGVAKPSQVYFGGT VVGEQAMKSEDE
VGSLIEYEFRVINLGKPLTNLGTATLNIQWPKEISNGKWL LYLKVESKGLEKVTCEPQKEINSLNLTESHNSRK
KREITEKQIDDNRFSLFAERKYQTLNCSVNVNVCNIRCP LRGLDSKASLILRSRLWNSTFLEEYSK LNYLDILM
RAFIDVTAAAENIRLPNAGTQVRVTVPFSKTVAQYSGVPWWI ILVAILAGILMLALLVFILWKCGFFKR NKDHY
DATYHKA EIHAQPSDKERLTSDA

271/2682
FIGURE 250

GGAAACTCCCGCAGACTTCTCTGTAGATCGCTGAGCGATACTTTCGGCAGCACCTCCTTGATTCTCAGTTTTGCT
GGAGGCCGCAACCAGGCCCGCGCCGCCACCATGTTTCGAAATCAGTATGACAATGATGTCAGTGTGGAGCCCC
CAGGGCAGGATTCATCAAATTGAATATGCAATGGAAGCTGTTAAACAAGGTCAGCCACAGTTGGTCTGAAATCA
AAAACATCATGCAGTTTTGGTTGCATTGAAAAGGGCGCAATCAGAGCTTGCAAGCTCATCAGAAAAAATTCTCCAT
GTTGACAACCACATTGGTATCTCAATTGCGGGGCTTACTGCTGATGCTAGACTGTTATGTAATTTTATGCGTCAG
GAGTGTGGATTCCAGATTTGTATTGATAGACCAGTGCCTGTGTCTCGTCTGTATCTCTAATTGGAAGCAAG
ACCCAGATACCAACACAACGATATGGCCGGAGACCATATGGTGTGGTCTCCTTATTGCTGGTTATGATGATATG
GGCCCTCACATTTTCCAAACCTGTCCATCTGCTAACTATTTTACTGTCAGAGCCATGTCCATTGGAGCCCGTTCC
CAATCAGCTCGTACTTACTTGGAGAGACATATGTCTGAATTTATGGAGTGTAAATTTAAATGAACTAGTTAAACAT
GGTCTGCGTGCCTTAAGAGAGACGCTTCCTGCAGAACAGGACCTGACTACAAAGAATGTTTCCATTGGAATTGTT
GGTAAAGACTTGGAGTTTACAATCTATGATGATGATGATGTGTCTCCATTCTGGAAGGTCTTGAAGAAAGACCA
CAGAGAAAGGCACAGCCTGCTCAACCTGCTGATGAACCTGCAGAAAAGGCTGATGAACCAATGGAACATTAAGTG
ATAAGCCAGTCTATATATGTATTATCAAATATGTAAGAATACAGGCACCACATACTGATGACAATAATCTATACT
TTGAACCAAAAGTTGCAGAGTGGTGAATGCTATGCTATGTTTTAGGAATCAGTCCAGATGTGAGTTTTTCCAA
GCAACCTCACTGAAACCTATATAATGGAATACATTTTCTTTGAAAGGTCTGTATAATCATTTTCTAGAAGTAT
GGGTATCTATACTAATGTTTTTATATAAGAACATAGGTGTCTTTGTGGTTTTAAAGACAACGTGTAATAAAAT
TGTTTCACCGCCTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

272/2682
FIGURE 251

MFRNQYDNDVTWSPQGRIHQIEYAMEAVKQGSATVGLKSKTHAVLVALKRAQSELAAHQKKILHVDNHIGISIA
GLTADARLLCNFMRQECLDSRFVDRPLPVSRLVSLIGSKTQIPTQRYGRRPYGVGLLIAGYDDMGPHIFQTCPS
ANYFDCRAMSIGARSQSARTYLERHMSEFMECNLNELVKHGLRALRETLPAEQDLTTKNV SIGIVGKDLEFTIYD
DDDVSPFLEGLEERPQRKAQPAQPADEPAEKADPEMEH

273/2682
FIGURE 252

GGGGTGACGCAGGCGCAGCGCGGGCTGCGCGCGCTACTGCCCATCCCCGTTGTCCCACTTTTGTTCGCCTCTCT
TCGGTCCTCTACTCAAGAGCTCCGTCTCCGTCTCGCCCTCCTCGAAGTCTCGTCGCGCGCCCGGACCCAGGTC
GCCCTGAAATCTAGCCCGTCCGAGCGGAGTCCAACGGCCGCGGCCGACCAAGGCCCCCTCAGACCGTGCCATG
GGTGACAGTGATGACGAGTACGATCGAAGGCGCAGGGACAAGTTTCTAGAAGAGAGCGCAGCGACTACGACCGTTCC
CGCGAGAGAGATGAAAGACGTGAGGGGACGATTGGAATGACAGAGAGTGGGACCGTGGCCGTGAGCGCCGTAGT
CGGGGTGAATATCGGGACTATGACCGGAATCGGCGAGAGCGCTTCTCGCCACCTCGCCACGAACTCAGCCCCGCA
CAGAAGCGCATGAGGAGAGACTGGGATGAGCACAGCTCTGACCCATACCACAGTGGCTATGAGATGCCCTATGCT
GGGGGGGGGTGGGGGCCCAACTTATGGCCCCCTCAGCCCTGGGGCCACCCTGACGTCCACATCATGCAGCACCA
TGTCCTGCCTATCCAGGCCAGGCTGGGCAGCATTGACAGAGATTGACCTGGGTGTGCGCGCCCGCGTGATGAAGAC
CTTCAAGGAGTTTTCTCTCTCCCTGGATGACTCGGTGGATGAGACGGAGGCCGTCAAGCGCTATAATGACTACAA
GCTGGATTTCCGGAGGCAACAGATGCAGGATTTCTTCTGGCGCACAAAGATGAGGAGTGGTTTCGGTCTAAGTA
CCACCCAGATGAGGTGGGAAGCGTCGGCAGGAGGCCGGGGGGCCCTGCAAAACCGACTGAGGGTCTTCTCTGTC
CCTCATGGAGACTGGCTGGTTTGATAACCTTCTCTGGACATAGACAAAGCTGATGCCATTGTCAAGATGCTGGA
TGCAGCCGTGATTAAGATGGAAGGAGGCACGGAGAATGATCTCCGCATCCTGGAGCAGGAGGAGGAGGAGGAGCA
GGCAGGAAAGCCTGGGGAGCCAGCAAGAAAGAAGAAGGACGGGCTGGAGCAGGCCTAGGGGACGGGGAGCGCAA
AACCACGACAAGGATGAGAAGAAGGAAGACGGCAAGCAGGCTGAGAATGACAGTTCTAATGATGACAAAACAAA
GAAGTCGGAGGGTGATGGGGACAAGGAAGAGAAGAAAGAAGACTCCGAGAAGGAAGCCAAAAAGAGTAGCAAGAA
GCGGAACCGGAAGCACAGTGGTGACGACAGCTTTGACGAGGCGAGCGTGTGAGTCTGAGTCGGAGTCAGAGAG
CGGCCAGGCTGAGGAGGAGAAGGAGGAGGCCGAAGCGCTCAAGGAGAAGGAGAAGCCCAAGGAAGAAGATGGGA
GAAGCCCAAGGACGCGCGGGGCTGGAGTGAAGCGCGGCCGCTGCATAAGACCTGCTCCCTCTTCATGCGCAA
CATCGCGCCCAACATCTCCCGGGCCGAGATCATCTCCCTTTGTAAAAGGTACCCAGGCTTTATGCGGGTGGCGCT
CTCAGAGCCCCAGCCAGAGAGGAGGTTTTTCCGTCTGGTGGGTGACCTTCGACCGCAGTGTAAACATTAAAGA
GATCTGTTGGAACCTGCAGAACATCCGTCTCCGGAGTGTGAGCTGAGCCCTGGTGTGAAGTGGGACCTGACCCGG
CGGTTTGCACATCAACGGCATCACCCAGCACAAAGCAGATTGTGCGCAACGACATCAAGCTGGCGGCCAAGCTG
ATCCACACGCTGGATGACAGGACACAGCTTTGGGCTCAGAACCGGACGCTCCCTGCCCCAGAGCCTGCCC
TCGCAAAACCCGATCTTGAAGAATATCACCGACTACCTGATCGAGGAAGTAAGCGCCGAGGAGGAGGAGCTGCTG
GGGAGCAGCGGGGGCGCTCCTCCTGAGGAGCCTCCTAAGGAAGGGAACCCGGCAGAGATCAACGTGGAGCGGGAT
GAGAAGTTGATTAAGGTCTTGGACAAGCTCCTCCTTTACCTGCGCATCGTGATTCTTGGATTATTACAACACC
TGTGAGTACCCCAACGAGGACGAGATGCCCAATCGCTGTGGGATCATCCAGTTCGGGGGCCCATGCCACCCAAC
CGCATCAGTCACGGGAAGTGCTGGAGTGGCAGAAGACTTTTGAGGAGAAGCTCACGCCGTTGCTGAGTGTGCGG
GAGTCACTCTCAGAGGAAGAGGCCCAGAAGATGGGGCGCAAGACCCAGAGCAGGAAGTGGAGAAGTTTCGTACCC
TCCAACACGCAGGAAGTGGCAAGGATAAGTGGCTGTGCTCTCAGTGGCAAGAAATTCAAGGGTCTGAGTTT
GCGCGCAACATATCTTCAACAAGCATGCAGAGAAAATTGAGGAAGTGAGAAAGGAAGTCGCGTTTTTTAACAAC
TTCTCACTGATGCTAAGCGCCAGCTCTGCCTGAGATCAAGCCAGCCAGCCACCTGGCCCCGCCCAGATACTC
CCCCCAGGTTTACCCAGGACTCCCCACACCAGACTCCCCAGGGCCTGATGCCCTATGGTCAGCCCCGG
CCCCGATCTTGGGCTATGGAGCTGGTGTCTGTCGCCCTGCAGTCCCCACAGGAGGCCCTCCATACCCCATGCC
CCGTATGGTGTGGTCGAGGGAAGTATGATGCCTTCGAGGCCAGGAGGCTATCTGGGAAACCTGCAACAGG
ATGGTTTCGTGGAGACCCAAGGGCCATTGTGGAATATCGGGACCTGGATGCCCCAGACGATGTTGATTCTTTTGA
GCCGTCCCCCGTTCTCAGTCTGTATCATCCATACTTGTACTACCTTGTCTATGAAGCTCTGAGAATTTTTTG
TACGATCAGCCTTACTGCTAATAAAAGCACTTCCACAGGGAACCAAAAAAAAAAAAAAAAAA

274/2682
FIGURE 253

CCGCAGAACTTGGGGAGCCGCCGCCCATCCGCCGCCGAGCCAGCTTCCGCCGCCGAGGACCGGCCCTGCC
CCAGCCTCCGAGCCGCGCGCGTCCACGCCCCGCCGCCAGGGCGAGTCGGGGTCGCCGCTGCACGCTTCT
CAGTGTTCGCCGCGCCCCGCATGTAAACCGGCCAGGCCCCCGCAACGGTGTCCCTGCAGCTCCAGCCCCGGGCT
GCACCCCCCGCCCCGACACCAGCTCTCCAGCCTGCTCGTCCAGGATGGCCGCGGCCAAGGCCGAGATGCAGCTG
ATGTCCCCGCTGCAGATCTCTGACCCGTTCCGATCCTTTCTCTACTCGCCACCATGGACAACCTACCCTAAGCTG
GAGGAGATGATGCTGCTGAGCAACGGGGCTCCCCAGTTCTCGGCCGCCGCGGGGCCCCAGAGGGCAGCGGCAGC
AACAGCAGCAGCAGCAGCAGCGGGGGCGGTGGAGCGCGGGGGCGGCAGCAACAGCAGCAGCAGCAGCAGCACC
TTCAACCCTCAGGCGGACACGGGCGAGCAGCCCTACGAGCACCTGACCGCAGAGTCTTTTCTGACATCTCTCTG
AACAACGAGAAGGTGCTGGTGGAGACCAGTTACCCAGCCAAACCACTCGACTGCCCCCATCACCTATACTGGC
CGCTTTTCCCTGGAGCCTGCACCCAACAGTGGCAACACCTTGTGGCCGAGCCCCCTTTCAGCTTGGTCAGTGGC
CTAGTGAGCATGACCAACCCACCGGCTCCTCGTCTCAGCACCTCTCCAGCGGCTCCTCCGCTCCGCTCC
CAGAGCCACCCCTGAGCTGCGCAGTGCCATCCAACGACAGCAGTCCCATTTACTCAGCGGCACCCACCTTCCCC
ACGCCGAACACTGACATTTTCCCTGAGCCACAAAGCCAGGCTTCCCGGGCTCGGCAGGGACAGCGCTCCAGTAC
CCGCTTCTGCTACCTTCCCGCAAGGGTGGCTTCCAGGTTCCCATGATCCCCGACTACCTGTTTCCACAGCAG
CAGGGGGATCTGGGCTGGGCACCCAGACCAGAAGCCCTTCCAGGGCTGGAGAGCCGCACCCAGCAGCCTTCG
CTAACCCCTCTGTCTACTATTAAGGCTTTGCCACTCAGTCGGGCTCCAGGACCTGAAGGCCCTCAATACCAGC
TACCAGTCCAGCTCATCAAACCCAGCCGATGCGCAAGTATCCCAACCGGCCAGCAAGACGCCCCCCCCACGAA
CGCCCTTACGCTTGCCAGTGGAGTCTGTGATCGCGCTTCTCCGCTCCGACGAGCTCACCCGCCACATCCGC
ATCCACACAGGCCAGAAGCCCTTCCAGTGCCGATCTGCATGCGCACTTCAGCCGCAGCGACCACCTCACCACC
CACATCCGCACCCACACAGGCGAAAAGCCCTTCGCTGCGACATCTGTGGAAGAAAGTTTGCCAGGAGCGATGAA
CGCAAGAGGCATACCAAGATCCACTTGCGGCAGAAGGACAAGAAAGCAGACAAAAGTGTGTGGCCTTTCGGCC
ACCTCCTCTCTCTCTCTACCCGTCCCCGGTTGTACCTCTTACCCGTCCCCGGTTACTACCTCTTATCCATCC
CCGGCCACCACCTCATACCCATCCCTGTGCCACCTCCTTCTCTCTCCCGGCTCCTCGACCTACCCATCCCT
GTGCACAGTGGCTTCCCTCCCCGTGGTGGCCACCACGTACTCCTCTGTTCCCCCTGCTTTCCCGGCCAGGTC
AGCAGCTTCCCTTCCCTCAGCTGTACCAACTCCTTCAGCGCTCCACAGGGCTTTCGGACATGACAGCAACCTTT
TCTCCAGGACAATTGAAATTTGCTAAAGGGGAAAGGGGAAAGAAAGGGGAGAAAAGAAACACAAGAGA
CTTAAAGGACAGGAGGAGGAGATGGCCATAGGAGAGGAGGTTCTCTTAGGTGAGATGGAGGTTCTCAGAGCCA
AGTCTCCTCTCTACTGGAGTGGAAAGGTCTATTGGCCAACAATCCTTTCTGCCCACTTCCCTTCCCCAATTAC
TATTCCCTTTGACTTCAGCTGCCTGAAACAGCCATGTCCAAGTTCTTCACCTCTATCCAAAGAACTTGATTGCA
TGGATTTTGATAAATCATTTTCAGTATCATCTCCATCATATGCCTGACCCCTTGCTCCCTTCAATGCTAGAAAAT
CGAGTTGGCAAAATGGGGTTTGGGCCCTCAGAGCCCTGCCCTGCACCCTGTACAGTGTCTGTGCCATGGATTT
CGTTTTTCTTGGGTACTCTTGATGTGAAGATAATTTGCATATTCTATTGTATTATTTGGAGTTAGGTCTCTACT
TGGGGGAAAAAAAAAAAAAAAAAGCCAAGCAAACCAATGGTGATCCTCTATTTGTGATGATGCTGTGACAATAAG
TTTGAACCTTTTTTTTTTGAACAGCAGTCCCAGTATTCTCAGAGCATGTGTCAGAGTGTGTTCGGTTAACCTTT
TTGTAATACTGCTTGACCGTACTCTCACATGTGGCAAAATATGGTTTGGTTTTTCTTTTTTTTTTTGAAAGTG
TTTTTCTTCTGCTCTTTTGGTTTAAAAAGTTTCAGCTTGGTGCTTTTGTGTGATGCCCTTGTGATGGCTT
GACATGTGCAATTGTGAGGGACATGCTCACCTCTAGCCTTAAGGGGGGAGGGAGTGATGATTGGGGGAGGCTT
TGGGAGCAAAATAAGGAAGAGGGCTGAGCTGAGCTTCGGTTCTCCAGAATGAAGAAAACAAAATCTAAAACAAA
ATCTGAACCTCTCAAAAGTCTATTTTTTAACTGAAAATGTAAATTTATAAATATATTAGGAGTTGGAATGTTGT
AGTTACCTACTGAGTAGGCGGCGATTTTTGTATGTTATGAACATGCAGTTCATTATTTTGTGGTTCTATTTTACT
TTGTACTTGTGTTTGTCTAAACAAAGTACTGTTTGGCTTATAAACACATTGAATGCGCTTTATTGCCCATGGGA
TATGTGGTGATATCCTTCCAAAAAATTAAAACGAAAATAAGTAGCTGCGATTGGG

275/2682
FIGURE 254

MAAAKAEMQLMSPLQISDPFGSFPHSPTMDNYPKLEEMLLSNGAPQFLGAAGAPEGSGSNSSSSSSSGGGGGGGG
GSNSSSSSTFNPQADTGEQPYEHLTAESFPDISLNNEKVLVETSYPSQTTRLPPITYTGRFSLEPAPNSGNTLW
PEPLFSLVSLVSMTNPPASSSSAPSPAASSASASQSPPLSCAVPSNDSSPIYSAAPTFFTPNTDIFPEPQSQAF
PGSAGTALQYPPPAYPAAKGGFQVPMIPDYLFPQQQGDGLGTPDQKPFQGLSRTQQPSLTPLSTIKAFATQSG
SQDLKALNTSYQSOLIKPSRMRYENRPSKTPPHERPYACPVESCDRRFSRDELTRHIRIHTGQKPFQCRICMR
NFSRSDHLTTHIRTHTGEKPFACDICGRKFARSDEKRHTKIHRLRQDKKADKSVVASSATSSLSSYPSPVATSY
PSPVTTSYSPATTSYSPVPTSFSSPGSSSTYSPVHSGFPSPSVATTYSSVPPAFPAQVSSFPSSAVTNSFSAS
TGLSDMTATFSPRIEIC

276/2682
FIGURE 255

CTTCCCCTTCTCTGCCCTGCTCCAGGCACCAGGCTCTTTCCCCTTCAGTGTCTCAGAGGAGGGGACGGCAGCACC
ATGGACCCCCGCTTGTCCACTGTCCGCCAGACCTGCTGCTGCTTCAATGTCCGCATCGCAACCACCGCCCTGGCC
ATCTACCATGTGATCATGAGCGTCTTGTGTTTCATCGAGCACTCAGTAGAGGTGGCCCATGGCAAGGCGTCCTGC
AAGCTCTCCCAGATGGGCTACCTCAGGATCGCTGACCTGATCTCCAGCTTCCTGCTCATCACCATGCTCTTCATC
ATCAGCCTGAGCCTACTGATCGGCGTAGTCAAGAACCGGGAGAAGTACCTGCTGCCCTTCCTGTCCCTGCAAATC
ATGGACTATCTCCTGTGCCTGCTCACCTGCTGGGCTCCTACATTGAGCTGCCCCGCTACCTCAAGTTGGCCTCC
CGGAGCCGTGCTAGCTCCTCCAAGTTCCCCCTGATGACGCTGCAGCTGCTGGACTTCTGCCTGAGCATCCTGACC
CTCTGCAGCTCCTACATGGAAGTGCCACCTATCTCAACTTCAAGTCCATGAACCACATGAATTACCTCCCCAGC
CAGGAGGATATGCCTCATAACCAGTTCATCAAGATGATGATCATCTTTTCCATCGCCTTCATCACTGTCCTTATC
TTCAAGGTCTACATGTTCAAGTGCGTGTGGCGGTGCTACAGATTGATCAAGTGCATGAACTCGGTGGAGGAGAAG
AGAAACTCCAAGATGCTCCAGAAGGTGGTCCCTGCCGTCTACGAGGAAGCCCTGTCTTTGCCATCGAAGACCCCA
GAGGGGGGCCAGCACCACCCCCATACTCAGAGGTGTGACCCCTCGCCAGGCCCCAGCCCCAGTGTGGGAGGGGT
GGAGCTGCCCTCATAATCTGCTTTTTTGCTTTGGTGGCCCCCTGTGGCCTGGGTGGGCCCTCCCGCCCCCTCCCTGGC
AGGACAATCTGCTTGTGTCTCCCTCGCTGGCCTGCTCCTCGCAGGGCCTGTGAGCTGCTCACAATGGGTCAA
CGCTTTAGGCTGAGTCACTCCTCGGGTCTCTCCATAATTACGCCCAACAATGCTTGGTTTATTTCAATCAGCTCT
GACACTTGTTTTAGACGATTGGCCATTCTAAAGTTGGTGAGTTTGTCAAGCAACTATCGACTTGATCAGTTCAGCC
AAGCAACTGACAAATCAAAAACCCACTTGTCAAGTTCAGTAAAATAATTTGGTCAAACAACAGTCTATTGCATTGA
TTTATAAATAGTTGTCAAGTTCACATAGCAATTTAATCAAGTAATCATTAATTAGTTACCCCCATATATATAAATAT
ATGTAATCAATTTCTTCAAATAGCTTGCTTACATGATAATCAATTAGCCAACCATGAGTCATTTAGAATAGTGAT
AAATAGAATACACAGAATAGTGATGAAATTCAATTTAAAAAATCACGTTAGCCTCCAAACCATTTAATTCAAATG
AACCCATCAACTGGATGCCAACTCTGGCGAATGTAGGACCTCTGAGTGGCTGTATAATTGTTAATTCAAATGAAA
TTCATTTAAACAGTTGACAACTGTCATTCAACAATTAGCTCCAGGAAATAACAGTTATTTTCATCATAAAACAGT
CCCTTCAAACACACAATTGTTCTGCTGAAGAGTTGTCATCAACAATCCAATGCTCACCTATTAGTTGCTCTGTG
GTCAGTGTGGCTGCATAGCAGTGGATTCCATGAAAGGAGTCATTTTAGTGATGAGCTGCCAGTCCATTCCCAGGC
CAGGCTGTGCTGGCCATCCATTAGTTCGATTAGTCATAGGCGAATCTGTTCTGCCCGAGGCTTGTGGTCAAGC
AAAAATTAGCCCTGAAATCAGGCACATCTGTTCTGTTGGAATAAACCCACAGGTTAGTTAGTCAAAGCAGGCAA
CCCCCTTGTGGGCACTGACCCTGCCACTGGGGTCATGGCGGTTGTGGCAGCTGGGGAGGTTTGGCCCCAACAGCC
CTCCTGTGCCTGCTTCCCTGTGTGTCGGGGTCTCCAGGGAGCTGACCCAGAGGTGGAGGCCACGGAGGCAGGGT
CTCTGGGGACTGTGGGGGGTACAGAGGGAGAAGGCTCTGCAAGAGCTCCCTGGCAATACCCCTTGTGTAATTG
CTTGTGTGCGACAGGGAGGAAGTTTCAATAAAGCAACAACAAGCTTCAAGGAATT

277/2682
FIGURE 256

MDPRLSTVRQTCCCFNVRIATTALAIYHVIMSVLLFIEHSVEVAHGKASCKLSQMGYLRIADLISSFLLITMLFI
ISLSLLIGVVKNREKYLLPFLSLQIMDYLLCLLTLLGSYIELPAYLKLASRSRASSSKFPLMTLQLLDFCLSILT
LCSSYMEVPTYLNFKSMNHMNYLPSQEDMPHNQFIKMMIIFSIAFITVLIFKVYMFKCVWRCYRLIKCMNSVEEK
RNSKMLQKVVLPSYEEALSLPSKTPEGGPAPPYSEV

278/2682
FIGURE 257

CACGAGGGAGCGCTAACGTCTTTCTGTCTCCCCGCGGTGGTGAACGCGGTGAAAACCTGAGGCTGCTAAGGGCACC
CTCACTTACTCCAGGATGAGGGGCATGGTGGCAATTCTCATCGCTTTCATGAAGCAGAGGAGGATGGGTCTGAAC
GACTTTATTTCAGAAGATTGCCAATAACTCCTATGCATGCAAACACCTGAAGTTCAGTCCATCTTGAAGATCTCC
CAACCTCAGGAGCCTGAGCTTATGAATGCCAACCTTCTCCTCCACCAAGTCTTCTCAGCAAATCAACCTTGGC
CCGTCGTCCAATCCTCATGCTAAACCATCTGACTTTCACTTCTTGAAAGTGATCGGAAAGGGCAGTTTTGGAAAG
GTTCTTTAGCAAGACACAAGGCAGAAGAAGTGTCTATGCAGTCAAAGTTTTACAGAAGAAAGCAATCCTGAAA
AAGAAAGAGGAGAAGCATATTATGTGCGAGCGGAATGTTCTGTTGAAGAATGTGAAGCACCTTTCTGGTGGGC
CTTCACTTCTCTTTCCAGACTGCTGACAAATTGTACTTTGTCTAGACTACATTAATGGTGGAGAGTTGTTCTAC
CATCTCCAGAGGGAACGCTGCTTCTGGAACACGCGGCTCGTTTCTATGCTGCTGAAATAGCCAGTGCCTTGGGC
TACCTGCATTCACTGAACATCGTTTATAGAGACTTAAAACCAGAGAATATTTTGTAGATTACAGGGACACATT
GTCCTTACTGATTTTCGGACTCTGCAAGGAGAACATTGAACACAACAGCACAACTCCACCTTCTGTGGCACGCCG
GAGTATCTCGCACCTGAGGTGCTTCATAAGCAGCCTTATGACAGGACTGTGGACTGGTGGTGCCTGGGAGCTGTC
TTGTATGAGATGCTGTATGGCCTGCCGCTTTTTATAGCCGAAACACAGCTGAAATGTACGACAACATTCTGAAC
AAGCCTCTCCAGCTGAAACCAAATATTACAAATTCGCAAGACACCTCCTGGAGGGCCTCTGCAGAAGGACAGG
ACAAAGCGGCTCGGGGCCAAGGATGACTTTCATGGAGATTAAGAGTCATGTCTTCTTCTCTTAATTAAGTGGGAT
GATCTCATTAAATAAGAAGATTACTCCCCCTTTTAAACCAAATGTGAGTGGGCCCCAACGAGCTACGGCACTTTGAC
CCCGAGTTTACCGAAGAGCCTGTCCCCAATCCATTGGCAAGTCCCCCTGACAGCGTCTCGTCACAGCCAGCGTC
AAGGAAGCTGCCGAGGCTTTCTAGGCTTTTCTATGCGCCTCCACGGAAGTCTTTCTCTGAACCTGTTAGGG
CTTGGTTTTAAAGGATTTTATGTGTGTTTCCGAATGTTTAGTTAGCCTTTTGGTGGAGCCGCCAGCTGACAGGA
CATCTTACAAGAGAATTTGCACATCTCTGGAAGCTTAGCAATCTTATGCACACTGTTGCTGGAATTTTTTGAA
GAGCACATTCTCCTCAGTGAGCTCATGAGGTTTTCACTTTTATTCTTCTTCCAACGTGGTGCTATCTCTGAAAC
GAGCGTTAGAGTGCCGCTTAGACGGAGGCAGGAGTTTCGTTAGAAAGCGGACCTGTTCTAAAAAAGGTCTCCTG
CAGATCTGTCTGGGCTGTGATGACGAATATTATGAAATGTGCCTTTTCTGAAGAGATTGTGTTAGCTCCAAAGCT
TTTCTATCGCAGTGTTCAGTTCTTTATTTTCCCTTGTGGATATGCTGTGTGAACCGTCGTGTGAGTGTGGTAT
GCCTGATCACAGATGGATTTTGTATAAGCATCAATGTGACACTTGCAGGACACTACAACGTGGGACATTGTTTG
TTTCTTCCATATTTGGAAGATAAATTTATGTGTAGACTTTTTTGTAAGATACGGTTAATAACTAAAATTTATGA
AATGGTCTTGCAATGACTCGTATTTCAGATGCCTAAAGAAAGCATTGCTGCTACAAATATTTCTATTTTTAGAAAG
GGTTTTTATGGACCAATGCCCCAGTTGTGAGTCAGAGCCGTTGGTGTTCATTGTTTAAATGTCACCTGTAA
AATGGGCATTATTTATGTTTTTTTTTTTGCATTCTGATAATTGTATGTATTGTATAAAGAACGTCTGTACATTG
GGTTATAACACTAGTATATTTAACTTACAGGCTTATTTGTAATGTAAACCACCATTTTAAATGTACTGTAATTAA
CATGGTTATAATACGTACAATCCTTCCCTCATCCATCACACAACCTTTTTTGTGTGTGATAAACTGATTTTGGT
TTGCAATAAACCTTGAAAAATAAAAAAAAAAAAAAAAAAAAAA

279/2682

FIGURE 258

MTVKTEAAKGTLTYSRMGMVAILIAFMKQRRMGLNDFIQKIANN SYACKHPEVQSILKISQPQEP ELMNANPSP
PPSPSQINLGPSSNP HAKPSDFHFLKVIGKGSFGKVLLARHKAEEVFYAVKVLQKKAILKKKEEKHIMSER NVL
LKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERC FLEPRARFYAAEIASALGYLHSLNIVYRDLKP
ENILLDSQGHIVLTDFGLCKENIEHNSTTSTFCGTP EYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSR
NTAEMYDNIILNKPLQLKPNITNSARHLLEGLLQKDRTKRLGAKDDFMEIKSHVFFSLINWDDLINKKITPPFNPN
VSGPNELRHFDPEFTEEPVPNSIGKSPDSVLVTASVKEAAEAF LGFSYAPPTDSFL

280/2682
FIGURE 259

GGCCTGTTCTCGAGTCCGCGCTTTTCGTCACCGCCATGTCGGGAGGTGGTGTGATTTCGTGGCCCCGAGGGAACA
ACGATTGCCGCATCTACGTGGGTAACCTACCTCCAGACATCCGAACCAAGGACATTGAGGACGTGTTCTACAAAT
ACGGCGCTATCCGCGACATCGACCTCAAGAATCGCCGCGGGGACCGCCCTTCGCCCTTCGTTGAGTTCGAGGACC
CGCGAGACGCGGAAGACGCGGTGTATGGTCGCGACGGCTATGATTACGATGGGTACCGTCTGCGGGTGGAGTTTC
CTCGAAGCGGCCGTGGAACAGGCCGAGGCGGCGGGGGTGGAGGTGGCGGAGCTCCCCGAGGTGCGTATGGCC
CCCCATCCAGGCGGTCTGAAAACAGAGTGGTTGTCTCTGGACTGCCTCCAAGTGGAAAGTTGGCAGGATTTAAAGG
ATCACATGCGTGAAGCAGGTGATGTATGTTATGCTGATGTTTACCAGATGGCACTGGTGTGCTGGAGTTTGTAC
GGAAAGAAGATATGACCTATGCAGTTCGAAAACCTGGATAACACTAAGTTTAGATCTCATGAGGGAGAACTGCCT
ACATCCGGGTTAAAGTTGATGGGCCAGAAAGTCCAAGTTATGGAAGATCTCGATCTCGAAGCCGTAGTCGTAGCA
GAAGCCGTAGCAGAAGCAACAGCAGGAGTCGCAGTTACTCCCCAAGGAGAAGCAGAGGATCACCACGCTATTCTC
CCCGTCATAGCAGATCTCGCTCTCGTACATAAGATGATTGGTGACACTTTTTGTAGAACCCTATGTTGTATACAGT
TTTCCTTTTATTAGTACAATCTTTTCATTTTTTAATTCAAACCTGTTTGTTCAGAAATGGGCTAAAGTGTGAATT
GCATTCTTGTAATATCCCCTTGCTCCTAACATCTACATTCCCTTCGTGTCTTTGATAAATTGTATTTTAAAGTAT
GTCATAGACAGGATTGTTTAAATTTAGTTAACTCCATACTCTTCAGACTGTGATATTGTGTAAATGTCTATCTGC
CCTGGTTTGTGTGAACTGGGATGTTGGGGGTGTTTGTGGTTATCTTACCTGGGGAAGTTCTTATGTTTATCTTGC
TTTTCATGTGTCTTTCTGTAGACATATCTGAAGAGATGGATTAAGAATGCTTTGGATTAAGGATTGTGGAGCACA
TTTCAATCATTTTAGGATTGTCAAAGGAGGATTGAGGAGGATCAGATCAATAATGGAGGCAATGGTATGACTCC
AAGTGCTATTGTACAGATGAAATTGGCAGTATTGACCTTATACTAAAAGGCAGGGGTAAAAATGATTATATAC
ATTTTCCTTAAACACTTGCAAACATTTTATTAGTTGTCTTTAGCTACAATTGCTTTTGTCTTTTAAACCTTGGC
AATTGTGGCAAATATATTGCCCATTGTGTAGCACTTATTTTGTCTCCCTTCCCCCATTTTGTTTTAAATAGG
GACTAATGTGGGAAGAACTGGCTAATTTGTACAGTGTCTAGTTACAACCTGTTAATGTGTGACCTGCTGTTGGTG
TACATGTGGGTACAGGGTGTTTTTAAATCCAACAAGATAGAGTATAATATCAATACTGCTAAATCTGCATGTCTCT
CTGTGTGACTGATAGAGCGTTGCTATTTTCATTTTTTTAAGACAAAATGAAAGCAAAATATAGAGTTCCAATGTAT
TGGTGTAGATAATCTAGTTGGGAATACTTTTAAGTCTCACCTTCCCCTTTAAACTAATATTCATAATTGGTTCAI
ATGTTTAAAGACTTTAATTTACAAATTAAATTGCAATGGGAGCATTAGATTTAGTTTTAGACTTAGGTGGGTA
GCAATGCCAGTAACTTAAATTACGTAACCTCTTGCAACCACGAAACCTGTAATACGCTGTACAGTAACAAGTGT
TGGCATTATCAGTTGAACTGTAAATACAAAATGCTTCTTCCAATTAGTCTCTATGATGATTAAGTTTCTAAAATT
TATCTGAACACCATTAGAAAATGTTTTGGGGAATTTGATAGTTATTGATGTGCATCTGTAAACTGATGACAG
ACATAACTCATCATTTCCCAGAAACCTTTTTTGATTACAGTATCTAACATTTTGCTCTCTTTTTTGGTTTTGC
TGGTTATAAAGTTTTGATTGGAGAGGGCTCACTGGATCCCAATCCTTGGAGCTGGATCATTGGATTCAAATCAT
AATGTGGATAGGATAGGAGGATGAATTACCAGGATTCATGGAGCGGGATCAGATTACCAGGAACATAGGAGTGG
ATTCTGCCCCAACCAACCGCATTTCGTGTGGATTTTTTTTATTCAACTTAATTGGCTATTCCAAAGATTTTTTTT
TTCCTATTTTTGACGATTGGAGCCCTTAAGATGCACGATGGAATTGTGTTTTGCGTTTTTGGTAAAAGGAGCAA
AGCGAGGACCTGGAGATAAACGCTGGAGCAATCTCCTTGAAGGATTACGACGAGTAGATGGTAAACATTTTAA
GGGGAAGGGGGGGTTTTGTTTAAATAGTAAATCAGTAAGTCACTTCTAAATTTAAAGAAAACAAAATTGGAGTT
GAAGAATAAGTAGGTTTCCAATTGGCTATTGCCGTTTTCTTTGAAAAATAAACATTTTTTAAAAAACAAAAAA
AAAAAAA

281/2682
FIGURE 260

MSGGGVIRGPAGNNDCRIYVGNLPPDIRTKDIEDVFYKYGAIRDIDLKNRRGGPPFAFVEFEDPRDAEDAVYGRD
GYDYDGYRLRVEFPRSGRGTGRGGGGGGGGGAPRGYGPSSRRSENRVVVSGLPPSGSWQDLKDHMREAGDVCYA
DVYRDGTGVVEFVRKEDMTYAVRKLDNTKFRSHEGETAYIRVKVDGPRSPSYGRSRSRSRSRSRSRSRSNSRSRS
YSPRRSRGSPRYSRHSRSRSRT

282/2682
FIGURE 261

AGATAACAAGAGTAATCCACAGACTTAAAACATGAGCTCAGATGCCAGCCAAGGCGTGATTACCACTCCTCCTCC
TCCAGCATGCCTCACAAAGAGAGATATTTTGACCGCATCAATGAAAATGACCCAGAATACATTAGGGAGAGGAA
CATGTCTCCTGATCTACGACAAGACTTCAACATGATGGAGCAGAGGAAACGAGTTACTCAGATCCTGCAAAGTCC
TGCCTTTTCGGGAAGACTTGGAAATGCCTTATTCAAGAACAGATGAAGAAAGGCCACAACCCAACTGGATTACTAGC
ATTACAGCAGATTGCAGATTACATCATGGCCAATTCTTTCTCGGGTTTTTCTTCACCTCCTCTCAGTCTTGGCAT
GGTCACACCTATCAATGACCTTCTGGTGCAGATACATCCTCATATGTGAAGGGAGAAAACTTACTCGCTGTAA
ACTTGCCAGCCTGTACAGACTTGTAGACTTGTGGATGGGCACACCTGGCAAATACCTATAICTCAGTAAGAAT
AAGTAAGGAGCAAGACCACATTATAATAATTCACAGAGGCCTATCTTTTCTGAAGCTACAGCCTCCAATTTGGT
GAAAGTCAATATAATAGGAGAAGTGGTTGACCAGGGAAGTACCAATTTGAAAATTGACCATACAGGATTCACTCC
CCATGCTGCAATCTATTCAACACGTCCTGATGTTAAGTGTGTACATACATCCATACCCTTGCAACAGCAGCTGT
ATCCTCCATGAAATGTGGGATCCTTCCAATTTCTCAAGAGTCTCTTCTTCTGGGAGATGTTGCCTATTATGACTA
CCAAGGGTCACTTGAAGAACAGGAGGAGAGAATTCAACTGCAGAAGGTTCTGGGACCAAGTTGTAAGGTGCTGGT
ACTCAGGAATCATGGTGTGGTTGCACCTTGAGAAACATTAGAGGAGGCTTTTCAATTATTTTTAATGTGCAACT
AGCCTGTGAGATTCAAGGTGCAGGCCCTAGCAGGTGCAGGTGGAGTAGACAATCTCCATGTACTGGACTTTCAGAA
GTATAAAGCTTTCACTTACACTGTAGCAGCGTCTGGTGGAGGAGGTGAATATGGGTTCCCAACAAAAATGGAA
GGTTGGCGAAATTGAGTTTGAAGGGCTTATGAGGACTCTGGACAACCTGGGGTATAGAACAGGCTATGCTTACAG
GCATCCTCTCATTGAGAGAAGCCTAGGCACAAGAGTGATGTGGAATCCAGCAACTGTGACTGCTTTTCTCTT
TGAAGACGATACAGTGCCACTCTCTCTCTCAAATACATGGCACAGAGGCAACAGCGTGAAAAACAAGATGGCT
GAACCTACCAAATACTTACATGAAAGTGAATGTGCCTGAGGAGTCTCGGAACGGAGAAACAGTCCCCGAACCAA
AATCAGGTGGATGAAAGCAGAAGACTCATCTAAAGTTAGTGGTGAACACCTATCAAAATGAAGATCCAAATCA
GTTTGTCTCTTTTAAACACAAACCCGAATGAGGTACTAGAAAAGAGAAATAAGATTGGGAACAAAATCGATATGA
CTTGAACAGCAGGAGCACAATCTCAGTTGCTTGCTGGAATTGTTGTGGATAAGCCACCTTCTACTATGCAATT
TGAAGATGATGATCATGGCCACCAGCTCCTCTAACCATTAGTCATCTCACAGAAGGAGAACTTGAAGAGTA
TAAGAGGACAATCGAACGTAAACAACAAGGCCTAGAAGATGCTGAGCAGGAATTACTCTCAGATGACGCTTCATC
TGTTTCACAAATTCAGTCTCAAACCTCAGTCACCGCAAAATGTCCCTGAAAAATTAGAAGAAAACCATGAGCTGTT
TTCCAAGAGCTTCACTCCATGGAAGTGCCTGTCTAGGTAGTAAATGGCAAGGATGATATGCATGATGTTGAAGA
TGAGCTTGCTAAGCGAGTGAGTAGGTTAAGCACAAAGTACAACCATAGAAAACATCGAGATTACTATTAAGTCTCC
AGAGAAAATCGAAGAAGTCTGTACCTGAAGGCTCCCTTCAAATCGCCATCCAAGAAAAAGAAATTCGG
CACTCCTTCTTTTCTGAAAAAGAACAAAAAAAGGAGAAAGTTGAGGCCATAATAAAGTCTTTTATAATTATTA
TTATAACAATGTGACATTGCACATCTAAATACCACATTTAAGTTGATCATTAATATGCAATGGTAGATCAGATTG
GGGGATGTAGCAAACTGGACTTTAAGAACTGGAAAGAGGTTTTACAAAAGAAAACTTTCAGATTCATCTCTCAT
TTTATATGTCCAGAAATGGCTTTGAATTTAAGCAATTACTAGTTTTAATTAGCTCTGCCCTCATGAAGTATTAT
TATAATTCACCATAAACAGCTATCTGTCTGAATTACTTCAGGCCTTCTCCATAATATCTGTTAGAAAGAAATTGC
CAGTGAGCAAGTGAGAATTTTTATTTCTCAATACCTGCTTCACTTGATAATCATATTATAATTTTTTATCATGAT
TATTGACTATATTTTTGGAGTCCCATTGTTTCAGTGGGCATTAACAGAATGCTTTAAAACTTCTAAGACAAGAA
TCTATAGCATTAGTATACACTGGCACATAATTTTTTAAAAAGTTTTAAGAAAAGATTCAATTGGAATTTTATTCA
CAGTATAAAATTTCTCACCTGAAGTAACTTTGTTTGCCAAAAAGTTGTTTTAATAAACTATAATTTTTTGAAAA
CTTCCTTTTTTATTAGTTTAGAAAGCCCTTATTTTTCAACAAAGGGGATTTGTACACATAACATGGGTTATTT
AGTTTAACTCTGGC

283/2682
FIGURE 262

MSSDASQGVITTPPPSPMPHKERYFDRINENDPEYIRERNMSPDLRQDFNMMEQRKRVTOILQSPAFREDLECLI
QEOMKKGHNPTGLLALQQIADYIMANSFSGFSSPPLSLGMVTPINDLPGADTSSYVKGEKLTRCKLASLYRLVDL
FGWAHLANTYISVRISKEQDHIIIPRGLSFSEATASNLVKVNIIGEVVDQGSTNLKIDHTGFSPHAAIYSTRPD
VKCVIHIHTLATAAVSSMKCGILPISQESLLLGDVAYDYQGSLEEQEERIQLQKVLGSPCKVLVLRNHGVVALG
ETLEEFHYIFNVQLACEIQVQALAGAGGVDNLHVLDFOKYKAFTYTVASGGGGVNMGSHQKWKVGEIEFEGLM
RTLDNLGYRTGYAYRHPLIREKPRHKSDEIPATVTAFSFEDDTVPLSPLKYMAQRQQREKTRWLNPNNTYMKVN
VPEESRNGETSPRTKITWMKAEDSSKVSGGTPIKIEDPNQFVPLNTPNEVLEKRNKIREQNRYDLKTAGPQSOL
LAGIVVDKPPSTMQFEDDDHGPPAPPNPFSHLTEGELEEYKRTIERKQOGLEDAEQELLSDDASSVSQIQSQTQS
PQNVPEKLEENHELFSKSFISMEVPVMVNGKDDMHDVEDELAKRVSRLSTTTIENIEITIKSPEKIEEVLSP
GSPSKSPSKKKKKFRTPSFLKKNKKKEKVEA

284/2682
FIGURE 263

ATATAACCGCTGGCCCGCGCGCGCTTCCCTCCCGGCGCAGTCACCGGCGGGTCTATGGCTGCGACTTCTCT
AATGTCTGCTTTGGCTGCCC GGCTGCTGCAGCCCGCGCACAGCTGCTCCCTTCGCCTTCGCCCTTTCCACCTCGC
GGCAGTTCGAAATGAAGCTGTTGTCAATTTCTGGAAGGAACTGGCCAGCAGATCAAGCAGGAAGTGCGGCAGGA
GGTAGAAGAGTGGGTGGCCTCAGGCAACAAACGGCCACACCTGAGTGTGATCCTGGTTGGCGAGAATCCTGCAAG
TCACTCCTATGTCTCAACAAAACCAGGGCAGCTGCAGTTGTGGGAATCAACAGTGAGACAATTATGAAACCAGC
TTCAATTTAGAGGAAGAATTGTTGAATTTAATCAATAAACTGAATAATGATGATAATGTAGATGGCCTCCTTGT
TCAGTTGCCTCTTCCAGAGCATATTGATGAGAGAAGGATCTGCAATGCTGTTTCTCCAGACAAGGATGTTGATGG
CTTTCATGTAATTAATGTAGGACGAATGTGTTTGGATCAGTATTCCATGTTACCGGCTACTCCATGGGGTGTGTG
GGAAATAATCAAGCGAACTGGCATTCCAACCCTAGGGAAGAATGTGGTTGTGGCTGGAAGGTCAAAAAACGTTGG
AATGCCCATTTGCAATGTTACTGCACACAGATGGGGCGCATGAACGTCGCCGAGGTGATGCCACTGTTACAATATC
TCATCGATATACCTCCCAAAGAGCAGTTGAAGAAACATAACAATTTCTGCAGATATTGTAATATCTGCTGCAGGTAT
TCCAAATCTGATCACAGCAGATATGATCAAGGAAGGAGCAGCAGTCATTGATGTGGGAATAAATAGAGTTCACGA
TCCTGTAACTGCCAAACCCAAGTTGGTTGGAGATGTGGATTTTGAAGGAGTCAGACAAAAAGCTGGGTATATCAC
TCCAGTTCTTGGAGGTGTTGGCCCCATGACAGTGGCAATGCTAATGAAGAATAACCATTATTGCTGCAAAAAAGGT
GCTGAGGCTTGAAGAGCGAGAAGTGCTGAAGTCTAAAGAGCTTGGGGTAGCCACTAATTAACACTACTGTGCTTCT
GTGTCACAAACAGCACTCCAGGCCAGCTCAAGAAGCAAAGCAGGCCAATAGAAATGCAATATTTTTAATTTATTC
TACTGAAATGGTTTAAATGATGCCTTGTATTTATTGAAAGCTTAAATGGGTGGGTGTTTCTGCACATACCTCTG
CAGTACCTCACCAGGGAGCATTCCAGTATCATGCAGGGTCTGTGATCTAGCCAGGAGCAGCCATTAACTAGTG
ATTAATATGGGAGACATTACCATATGGAGGATGGATGCTTCACTTTGTCAAGCACCTCAGTTACACATTTCGCCTT
TTCTAGGATTGCATTTCCCAAGTGCTATTGCAATAACAGTTGATACTCATTTTAGGTACCAGACCTTTTGAGTTC
AACTGATCAAACCAAAGGAAAAGTGTGTGCTAGAGAAAATTGGGGAAAAGGTGAAAAAGAAAAATGGTAGTAATT
GAGCAGAAAAAATTAATTTATATATGATTGATTGGCAACCAGATTTATCTAAGTAGAACTGAATTGGCTAGGA
AAAAAGAAAACTGCATGTTAATCATTTCCTAAGCTGTCCTTTTGAGGCTTAGTCAGTTTATTGGGAAAATGTT
TAGGATTATTCCTTGCTATTAGTACTCATTATGTAATGTTACCTTCAGTAAGTTCTCCCCATTTAGTTTTCT
AGGACTGAAAGGATTCTTTCTACATTATACATGTGTGTTGTCATATTTGGCTTTTGCTATATACTTTAACTTCA
TTGTTAAATTTTGTATTGTATAGTTTCTTTGGTGTATCTTAAACCTATTTTGAAAAACAACTGGCTTGAT
AATCATTGGGCAGCTTGGGTAAGTACGCAACTTACTTTCCACCAAAGAACTGTCAGCAGCTGCCTGCTTTTCT
GTGATGTATGTATCCTGTTGACTTTTCCAGAAATTTTTAAGAGTTGAGTTACTATTGAATTTAATCAGACTTT
CTGATTAAAGGGTTTTCTTTCTTTTTTAATAAAACACATCTGTCTGGTATGGTA

285/2682
FIGURE 264

MSALAAARLLQPAHSCSLRLRPFHLAAVRNEAVVISGRKLAQQIKQEVROEVEEWVASGNKRPHLSVILVGENPAS
HSYVLNKTRAAAVVGINSETIMKPASISSEELLNLINKLNDDNVDGLLVQLPLPEHIDERRICNAVSPDKDVDG
FHVINVGRMCLDQYSMLPATPWGVWEIIKRTGIPTLGKNVVVAGRSKNVGMPIAMLLHTDGAHERPGGDATVTIS
HRYTPKEQLKKHTILADIVISAAGIPNLITADMIKEGAAVIDVGINRVHDPVTAKPKLVGDVDFEGVRQKAGYIT
PVPGGVGPMTVAMLMKNTIIAAKKVLRLEREVLKSKELGVATN

286/2682
FIGURE 265

GGGGGAGTGAAAGCGAAAGCCCGGGCGACTAGCCGGGAGACCAGAGATCTAGCGACTGAAGCAGCATGGCCAAGC
CGTGTGGGGTGC GCCTGAGCGGGGAAGCCCGCAAACAGGTGGAGGTCTTCAGGCAGAATCTTTTCCAGGAGGCTG
AGGAATTCCCTCTACAGATTCTTGCCACAGAAAATCATATACCTGAATCAGCTCTTGCAAGAGGACTCCCTCAATG
TGGCTGACTTGACTTCCCTCCGGGCCCCACTGGACATCCCCATCCCAGACCCTCCACCCAAGGATGATGAGATGG
AAACAGATAAGCAGGAGAAGAAAGAAGTCCCTAAGTGTGGATTCTCCCTGGGAATGAGAAAAGTCCGTCCCTGC
TTGCCCTGGTTAAGCCAGAAGTCTGGACTCTCAAAGAGAAATGCATTCTGGTGATTACATGGATCCAACACCTGA
TCCCCAAGATTGAAGATGGAAATGATTTTGGGGTAGCAATCCAGGAGAAGGTGCTGGAGAGGGTGAATGCCGTCA
AGACCAAAGTGGAAGCTTTCCAGACAACCAATTTCCAAGTACTTCTCAGAACGTGGGGATGCTGTGGCCAAGGCCT
CCAAGGAGACTCATGTAATGGATTACCGGGCCTTGGTGATGAGCGAGATGAGGCAGCCTATGGGGAGCTCAGGG
CCATGGTGCTGGACCTGAGGGCCTTCTATGCTGAGCTTTATCATATCATCAGCAGCAACCTGGAGAAAATTGTCA
CCCCAAAGGGTGAAGAAAAGCCATCTATGTACTTGAACCCGGGACTAGAAGGAAAATAAATGATCTATATGTTGTG
TGG

287/2682
FIGURE 266

MAKPCGVRLSGEARKQVEVFRQNLFQEAEFLYRFLPQKIIYLNQLLQEDSLNVADLTSLRAPLDIPIPDPPPKD
DEMETDKQEKKEVPKCGFLPGNEKVISLLALVKPEVWTLKEKCILVITWQHLPKIEDGNDFGVAIQEKVLERV
NAVKTKEAFQTTISKYFSERGDVAKASKETHVMDYRALVHERDEAAYGELRAMVLDLRAFYAELYHISSNLE
KIVTPKGEEKPSMY

288/2682
FIGURE 267

AGTCAAGATGGAGGAGTACGCGGAGAGCCTTGCCCATGGCGAATTGTGGATGACTGTGGTGGGGCCTTTACGAT
GGGTACCATTGGTGGTGGTATCTTTCAAGCAATCAAAGGTTTTTCGCAATTCTCCAGTGGGAGTAAACCACAGACT
ACGAGGGAGTTTGACAGCTATTAAAACCAGGGCTCCACAGTTAGGAGGTAGCTTTGCAGTTTGGGGAGGGCTGTT
TTCCATGATTGACTGTAGTATGGTTCAAGTCAGAGGAAAGGAAGATCCCTGGAATCCATCACAAGTGGTGCCTT
AACGGGAGCCATACTGGCAGCAAGAAATGGACCAAGTGGCCATGGTTGGGTTCAGCCGAATGGGTGGCATTCTCCT
AGCTTTAATTGAAGGAGCTGGTATCTTGTGACAAGATTTGCCTCTGCACAGTTTCCCAATGGTCTCAGTTTGC
AGAAGACCCCTCCAGTTGCCTTCAACTCAGTTACCTTCCTCACCTTTTGGAGACTATCGACAATATCAGTAGGA
CTTCTTTCCCTAGGATTTCTTTAACAGAACGAGTTGTGGTTCGAGAAGGATTTTCAGAAGATCAAGTTACAGTCTGT
TTTTAAAACCATAGGTGGGACAGCTATGGCCAATAGGCTATAAAGAGACATTTAGCACTTTTTTCTATTTAAAGG
AACAAGCGGGGAAGGGTGCTAAAAGATAATACGTTTATTTATTTCACACTTGAATTGCATTTGTGATCAAATAAA
TGTTTAAATCGCTAAAGGAAAAACAGTAAGTGCTTGAAAGATGAAGGACCAAAAGGCCAAAAAACAGTGAAATA
TGATCATCATCTCTTGCAGACTTCTCTGCCTGGTTTTGTGTGTTCTGTTATTCAAACAATAAAAAGCTGGTGGAA
CTTACTCTTTCTTTAAGATAAGTTGTAGACTTCGATGTTTCATGCTCATGTACTTCAAATAATGCATGTTTTAT
AGTTAGTCCCTCATCACTTGAAGTGACTTCTGAGAATTATGCAGAGTCAACATGGATCATTTACAGTGAGATGC
TTTATGGATTGAAGGATATGGTAAAAATGTTTATAGTTTACTTTGAAAGTAAAAATATACTATGCTTGGTTTTGAG
GATATTGGATACAAAACCTCTCTTCCTTTAGGGCTACTGAGTCTTGATTTCCTGATCATCAGAAATTTACCAGAAA
CAACTTGCTTCCAATATACCAATTCTATATGAAGAATTCATGGAGAGTGTAAGTGGCACTGGAAGAGTTTGTGT
TTCTTGATGCTTGAAAAATAAGTATGTACTGTTTTGAATGTGTTCCAAGTCTCTGCATAAACGATGATTTTGT
GGGTCTGGTTGGGCCTGGAAATGGATGAGCACTTCAGAACAGGTCAATTTCTGATATTGGAAGTGACATGTGG
CCCTATAGGAGGCATGATGTTAGTTAATTACACATTTGCCTACATCTGTGGGAAATGGAGAACAAAGCCATGTGG
GTACTGTAAACACACGTTTATCTTTTGGCCCAATGCCATACATATGGTAGGCATTTAATTACTGATTGTGTTTGG
ATAATTTGGGAATTTTCGACTGTGGTAAAAATATACATAAAATAATACTTATTAAAAA

289/2682
FIGURE 268

MEEYAREPCPWRIVDDCGGAFTMGTIGGGIFQAIKGFRNSPVG VNHRLRGSLTAIKTRAPQLGGSFAVWGGLFSM
IDCSMVQVRGKEDPWNSITSGALTGAILAARNGPVAMVGSAA MGILLALIEGAGILLTRFASAQFPNGPQFAED
PSQLPSTQLPSSPFGDYRQYQ

290/2682
FIGURE 269

AGAGGCTTCCCTGGCTGGTGCCTGAGCCCGGCGTCCCTCGCCCCCGCCCTCCCCGCATCCCTCTCCTCCCTCGC
GCCTGGCCCTGTGGCTCTTCTCCCTCCCTCCTTCCCCCCCCCCCCACCCCTCGCCCGCTGCCTCCCTCGGCCCA
GCCAGCTGTGCCGGCGTTTGTGGCTGCCCTGCGCCCGGCCCTCCAGCCAGCCTTCTGCCGGCCCCGCCGCGATG

GAGGTGCCCCAGCCGGAGCCCGGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGCGGTGGCGCCAGCGTCCG
GGCCACCTCCCGGGCCTCTGTGGATCTCATGGCTCCTGGGGTCCCCGGTGGGGCGGCCGCTTCTCTCGCCG
GTCACCACCCTCACCAGACCATGCACGACCTCGCCGGGCTCGGCAGCCGCAGCCGCTGACGCACCTATCCCTG
TCTCGACGGGCATCCGAATCCTCCTGTCTGCTGAATCCTCCGAATCTTCTGATGCAGGTCTCTGCATGGATTCC
CCCAGCCCTATGGACCCCCACATGGCGGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCAGCCGGATCATTCCA
AACGAGCAGTTTGGCCATCAGACGCTTCCAGTCTATGCCGGTGAAGGCTGCTGGGCCACAGCCCCGTGCTTCGGAAC
ATCACCAACTCCAGGCGCCCGACGCGCGGAGGAAGAGCGAGGCGGGCAGTGGAGCTGCCAGCAGCTCTGGGGAA
GACAAGGAGAATGTGCGCTTCTGGAAGCGCGGGTGGGAGCTCTCCGGGAAGAGGAGGGGGCATGCTGGGGTGGT
TCCCTGGCATGTGAGGACCCTCCTCTCCCATCTTGGCTGCAGGATGGATTGTCTTCAAGATGCCATGGAAGCCC
ACACATCCAGCTCCACCCATGCTCTGGCAGAGTGGGCCAGCCGAGGGAAGCCTTTGCCCAGAGACCCAGCTCG
GCCCCGACCTGATGTGTCTCAGTCTGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTGGCCCTAGGTGCG
TTCTCTCTGACCCCTGCAGAGGGGGATACTGAGGAAGATGATGGATTGTGGACATCTAGAGAGTGACTTAAAG
GATGATGATGCAGTTCCCCAGGCATGGAGAGTCTCATTAGTGGCCCACTGGTCAAGACCTTGAAAAAGGAAGAG
GAAAAGGACCTCGTCATGTACAGCAAGTGCCAGCGGCTCTTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGG
CCCATCCTCAAGAGGCTGGAGCGGCCCCAGGACAGGGACACGCCCGTGCAGAATAAGCGGAGGCGGAGCGTGACC
CCTCCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCGCGTCTCCGCTCAAAATCACTGTGTACGATGAG
ATCGAGAACCTCCTGGACAGTGACCACCGAGAGCTGATTGGAGATTACTCTAAGGCCTTCTCTACAGACAGTA
GACGGAAGCACCAAGACCTCAAGTACATCTCACCAGAAACGATGGTGGCCCTATTGACGGGCAAGTTACGCAAC
ATCGTGGATAAGTTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGGCGGGCACATCAAGACTGCGGTG
AACTTGCCCTTGAACGCGACGCGCGAGAGCTTCTACTGAAGAGCCCCATCGCGCCCTGTAGCCTGGACAAGAGA
GTCATCCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCCGATGTGCCGTTTCATCAGGGAACGAGAC
CGTGCTGTCAACGACTACCCAGCCTCTACTACCCTGAGATGTATATCTGAAAGCGGCTACAAGGAGTTCTTC
CCTCAGCACCCGAACTTCTGTGAACCCAGGACTACCGGCCATGAACCACGAGGCCTCAAGGATGAGCTAAAG
ACCTTCCGCTCAAGACTCGCAGCTGGGCTGGGGAGCGGAGCCGGCGGGAGCTCTGTAGCCGGCTGCAGGACCAG
TGAGGGGCGCTGCCCGAGTCTGTACCTCCCTTGCCCTTTCGAGGCGCTGAAGCCAGCTGCCCTATGGGCTGCCGG
GCTGAGGGCCTGCTGGAGGCCTCAGGTGCTGTCCATGGGAAAGATGGTGTGGTGTCTGCTGTCTGCCCCAGCC
CAGATTCCCCTGTGTATCCCATCATTTTCCATATCCTGGTGGCCCCACCCCTGGAAGAGCCAGTCTGTTGAG
TTAGTTAAGTTGGGTAAATACCAGCTTAAAGGCAGTATTTGTGTCTCCAGGAGCTTCTGTTTCTTGTAGG
GTTAACCTTTCATCTTCTGTGTCTGAAACGCTCCTTTGTGTGTGTGTGAGCTGAGGCTGGGGAGAGCCGTGGT
CCCTGAGGATGGGTCAGAGCTAAATCCTTCTGGCCTGAGAGTCAGCTCTCTGCCCTGTGTACTTCCCGGCCA
GGGCTGCCCTAATCTCTGTAGGAACCGTGGTATGTCTGCCATGTTGCCCTTTCTCTTTTCCCTTTCTGTCC
CACCATACGAGCACCTCCAGCCTGAACAGAAGCTCTTACTCTTTCCTATTTCAAGTGTACCTGTGTGCTTGGTCT
GTTTGACTTTACGCCCATCTCAGGACACTTCCGTAGACTGTTTAGGTTCCCCTGTCAAAATACAGTTACCCACTC
GGTCCAGTTTTTGTGCCCCAGAAAGGATGTTATTATCCTTGGGGGCTCCCAGGGCAAGGGTTAAGGCCTGAAT
CATGAGCCTGCTGGAAGCCCAGCCCTACTGCTGTGAACCTGGGGCCTGACTGCTCAGAACTTGCTGCTGTCTT
GTTGCGGATGGATGGAAGGTTGGATGGATGGGTGGATGGCCGTGGATGGCCGTGGATGCGCAGTGCCTTGATAC
CCAAACCAGGTGGGAGCGTTTTGTTGAGCATGACACCTGCAGCAGGAATATATGTGTGCCTATTTGTGTGGACAA
AAATATTTACACTTAGGGTTTGGAGCTATTCAAGAGGAAATGTACAGAAGCAGCTAAACCAAGGACTGAGCACC
CTCTGGATTCTGAATCTCAAGATGGGGGCAGGGCTGTGCTTGAAGGCCCTGCTGAGTCATCTGTTAGGGCCTTG
TTCAATAAAGCACTGAGCAAGTTGAGAAAAA

291/2682
FIGURE 270

MEVPQPEPAPGSALSPAGVCGGAQRPGHLPGLLLGSHGLLGSPVRAAASSPVTTLTQTMHDLAGLGSRSLTHLS
LSRRASESSLSESSESSDAGLCMDSPSPMDPHMAEQTFEQAIQAASRIIRNEQFAIRRFQSMFVRLLGHSPLR
NITNSQAPDGRRKSEAGSGAASSGEDKENVRFWKAGVGALREEEGACWGGSLACEDPPLPSWLQDGFVFKMPWK
PTHPSSTHALAEWASRREAFQRPSSAPDLMCLSPDRKMEVEELSPLALGRFSLTPAEGDTEEDDGFVDILESDL
KDDDAVPPGMESLISAPLVKTLEKEEEKDLVMYSKCQRLFRSPSMPCSVIRPILKRLERPQDRDTPVQNKRRRSV
TPPEEQEAEKPKARVLRKSLCHDEIENLLSDHRELIGDYSKAFLLQTVDGKHQDLKYISPETMVALLTGKFS
NIVDKFVIVDCRYPYEGGHIKTAVNLP LERDAESFLLKSPIAPCSLDKRVILIFHCEFSSERGPRMCRFIRER
DRAVNDYPSLYYPEMYILKGGYKEFFPQHFNCEPQDYRPMNHEAFKDELKTFRKTRSWAGERSRRELCSRLQD
Q

292/2682
FIGURE 271

GAATTCCGCTAGACTAAGTTGGTCAATGATGCAGAAGCTACTCAAATGCAGTCGGCTTGTCCTGGCTCTTGCCCTC
ATCCTGGTTCTGGAATCCTCAGITCAAGGTTATCCTACGCAGAGAGCCAGGTACCAATGGGTGCGCTGCAATCCA
GACAGTAATTCTGCAAACTGCCTTGAAGAAAAAGGACCAATGTTCGAACTACTTCCAGGTGAATCCAACAAGATC
CCCCGTCTGAGGACTGACCTTTTTCCAAAGACGAGAATCCAGGACTTGAATCGTATCTTCCCACTTCTGAGGAC
TACTCTGGATCAGGCTTCGGCTCCGGCTCCGGCTCTGGATCAGGATCTGGGAGTGGCTTCCTAACGGAATGGAA
CAGGATTACCAACTAGTAGACGAAAGTGATGCTTTCATGACAACCTTAGGTCTCTTGACAGGAATCTGCCCTCA
GACAGCCAGGACTTGGGTCAACATGGATTAGAAGAGGATTTTATGTTATTAAAAGAGGATTTTCCCACTTGACAC
CAGGCAATGTAGTTAGCATATTTTATGTACCATGGTTATATGATTAATCTTGGGACAAAGAATTTTATAGAAAT
TTTAAACATCTGAAAAAGAAGCTTAAGTTTTATCATCTTTTTTTTTCTCATGAATTCTTAAAGGATTATGCTTTA
ATGCTGTTATCTATCTTATTGTTCTTGAAAATACCTGCATTTTTTGGTATCATGTTCAACCAACATCATTATGAA
ATTAATTAGATTCCCATGGCCATAAAATGGCTTTAAAGAATATATATATATTTTTTAAAGTAGCTTGAGAAGCAAA
TTGGCAGGTAAATTTTCATACCTAAATTAAGACTCTGACTTGGATTGTGAATTATAATGATATGCCCTTTTCTT
ATAAAAACAAAAAAAATAATGAAACACAGTGAATTTGTAGAGTGGGGTATTTGACATATTTTACAGGGTGGA
GTGTACTATATACTATTACCTTTGAATGTGTTTGACAGAGCTAGTGGATGTGTTTGCTACAAGTATGATTGCTGT
TACATAACACCCCAAATTAACCTCCCAAATTAACACAGTTGTGCTGTCAATACCTCATACTGCTTTACCTTTTT
TTCCTGGATATCTGTGIATTTTCAAATGTTACTATATATTAAAGCAGAAATATAACC

293/2682
FIGURE 272

MMQKLLKCSRLVLALALILVLESSVQGYPTQRARYQWVRNPDNSANCLEEKGPMFELLPGESNKIPRLRTDLF
PKTRIQDLNRIFPLSEDYSGSGFGSGSGSGSGSGFLTEMEQDYQLVDESDAFHDNLRSLDRNLPSDSQDLGQH
GLEEDFML

294/2682
FIGURE 273

CCGGTCCTGAGACACGCTGTGTGGCTGAAAAGTGAAGGCAAGAGCTCATTGGCCTCTGTGCTCCCCCTCCGCAAG
GGATCGTTTCTCCAGAAGAGCTGGATATTCTTTCGCCAGTTATGCGAGACAAGTTAACGAGAATTGCTATTGTC
AACCATGACAAATGTAAACCTAAGAAATGTCGACAGGAATGCAAAAAGAGTTGCTCTGTAGTTCGAATGGGAAAA
TTATGCATAGAGGTTACACCCAGAGCAAAATAGCATGGATTTCCGAAACTCTTTGTATTGGTTGTGGTATCTGT
ATTAAGAAATGCCCTTTGGCGCCTTATCAATTGTCAATCTACCAAGCAACTTGGAAAAAGAAACCACACATCGA
TATTGTGCCAATGCCTTCAAACCTTCACAGGTTGCCTATCCCTCGTCCAGGTGAAGTTTGGGATTAGTTGGAAC
AATGGTATTGGAAGTCAAGCTGCTTTAAAAATTTTAGCAGGAAAAACAAAGCCAAACCTTGGAAAGTACGATGAT
CCTCCTGACTGGCAGGAGATTTGACTTATTTCCGTGGATCTGAATTACAAAATTACTTTACAAAGATTCTAGAA
GATGACCTAAAAGCCATCATCAAACCTCAATATGTAGCCAGATTCTAAGGCTGGCAAAGGGGACAGTGGGATCT
ATTTTGGACCGAAAAAGATGAAACAAAGACACAGGCAATTGTATGTCAGCAGCTTGATTAAACCCACCTAAAAGAA
CGAAATGTTGAAGATCTTTTCAGGAGGAGAGTTGCAGAGATTTGCTTGTGCTGTCGTTGCATACAGAAAGCTGAT
ATTTTCATGTTTGTAGAGCCTTCTAGTTACCTAGATGTCAAGCAGCGTTTAAAGGCTGCTATTACTATACGATCT
CTAATAAATCCAGATAGATATATCATTGTGGTGGAAACATGATCTAAGTGTATTAGACTATCTCTCCGACTTCATC
TGCTGTTTTATATGGTGTACCAAGCGCCTATGGAGTTGTCACATGCTTTTAGTGTAAGAGAAGGCATAAACATT
TTTTTGGATGGCTATGTTCCAACAGAAAACTTGAGATTTCAGAGATGCATCACTTGTTTTTAAAGTGGCTGAGACA
GCAATGAAGAAGAAGTTAAAAAGATGTGTATGTATAAATATCCAGGAATGAAGAAAAAATGGGAGAATTTGAG
CTAGCAATTGTAGCTGGAGAGTTTACAGATTCTGAAATTATGGTGTGCTGGGGGAAAAATGGAACGGGTAAAACG
ACATTTATCAGAATGCTTGTGCTGGAAGACTTAAACCTGATGAAGGAGGAGAAGTACCAGTTCTAAATGTCAGTTAT
AAGCCACAGAAAATTAGTCCCAAATCAACTGGAAGTGTTCGCCAGTTACTACATGAAAAGATAAGAGATGCTTAT
ACTACCCACAATTTGTGACCGATGTAATGAAGCCTCTGCAAAATTGAAAACATCATTGATCAAGAGGTGCAGACA
TTATCTGGTGGTGAACCTACAGCGAGTACGTTTACGCCTTTGCTTGGGCAACCTGCTGATGCTATTTAATTGAT
GAACCATCTGCATATTGGATTCTGAGCAAAGACTGATGGCAGCTCGAGTTGTCAAACGTTTCATACTCCATGCA
AAAAAGACAGCCTTTGTTGTGGAACATGACTTCATCATGCGCCACCTATCTAGCGGATCGCGTCATCGTTTTTGAT
GGTGTTCATCTAAGAACACAGTTGCAACAGTCTCAAACCTTTTGGCTGGCATGAATAAATTTTGTCTCAG
CTTGAAATTACATTTCAGAAGAGATCCAAACACTATAGGCCACGAATAAACAACTTAATTCAATTAAGGATGTA
GAACAAAAGAAGAGTGGAACTACTTTTTCTTGGATGATTAGACTGACTCTGAGAATATTGATAAGCCATTTATT
AAAAGGAGTATTTACTAGAATTTTTTGTATATAAACTTGAATCAGGATTTATGCCCCACATACTCTGGAAC
TGAAGTATAATATACTTAATATAACATAAAAGCCAGTTGGGTTCTAAATTGTAGTTGAAACACAGAAAATGCCA
CTTTCTGTTCTGAAGAGGCTCTTTTGTGCATAATATTCTAAATGAAGACATTTCAAGCTATACAAATTACTT
CCAAGTTTTCATGATGTATGGGAAGATTTTCAGTAGGTGATTATATTACGGTACCAATGTGACCAAGTGTG
CTCCATTTTTTAAATCTTGAAAGGGTTTCTGTACTTACCTGGTTTGCCAAGTATGCCAGTGTAAAGAACTGCC
CTTATTTTAAAGCCAGTCAAAGATTCAGTATTGACATTTGATAAATAACATCAGGATTATGTTTATTGTTT
GTTTTCAGTCTTTGCACTATATTACAGTATATGGTTTCCGAGGAAGATTATCTACTGCAAAACCACTGTTGG
AAAAATAGGTATTTTTAAATTGTTTTTAATCCTTTTTTGGTGTCTTTAAACATGTTAAGCAAAAACCAATTAG
TCCATTCCCCGCAAAAACCCCTAACTTTACTCTGAACTTTTTTGTTTTTGCATTCATGAGGTCTGTATTCA
GTCATTCTCTAGGTAATGTCATTTTGTACACATATATTTATATAATCACTGATTGAGATTTAGGAAAAAGCATT
TCTAAAGAATATTTGCTTCCCTTAGAACTACAGACTCGAAATCTTTAAAGATGGTGCTTAAGCATCTATGTATTT
TTTTTAAGTTCCACAGATTTTCTGTTGGGCAAGGATTATAAACCCTTCCCTAAAGGCAACATTAATGC
AAAAGTCCCCAGATGGCAATACAAAGTATCCCTGGTACCACATATATTCATTTGTGAGTTTGGATATAGAGCAC
ATTATCTAAACCATTTGTAGTTCCAAAACCCATCTAAATTTCTTGAGTTCTGAATTTTGAACAGGATTACCT
GGAGCCTGGAGCCACTTTAAGTTGTACTTCTGACTAACTGGAATTATGAGTGAGGAAGAGTGTCTACTAAATAA
ATGACTGGGGCAAGCAAAATTGAGGAGGAAATTAGAACTGTTTGACAACTTTAAGAGCTACTTGAATAACAG
AAGTCTTGATTAATATGCAATAATGGCTAGAAAGTATGGTTTAACTGGACCTATTATGCCTTTTTAAAAATAAT
TTCAGTAACCCATAAATACATGTTGTAAAAAATTCAATATACAGAATGGAATAAAAAAATGATCTCCCTTTATT
ACCCTCCCAAAGGTTACCAGCGTTTGAATTTAATAATGTATATTCTTCATGCTTTTTTCTGTGCACTTACCTAA
GTGTGAATATGTAAAGGGTTTGTGTGTATACAAATGGGATTATACTAAATAAGTAATGCCTATTTTTAAGGAT
AGGTTAAATTTGTGAATGATCATTTCAAATATATTGAATAAATAAGCAAAAGCTATTGTTATTTACTGATCCTG
AA

295/2682
FIGURE 274

MADKLTRIAIVNHDCKPKKCRQECKKSCPVVRMGKLCIEVTPQSKIAWISSETLCIGCGICIKKCPFGALSIVNL
PSNLEKETTHRYCANAFKLHRLPIPRPGEVLGLVGTNGIGKSAALKILAGKQKPNLGKYDDPPDWQEILTYFRGS
ELQNYFTKILEDDLKAIKPYVARFLRLAKGTVGSILDRKDETKTQAIVCQQLDLTHLKERNVEDLSGGELQRF
ACAVVCIQKADIFMFDEPSSYLDVKQRLKAAITIRSLINPDRIIIVVEHDLVLDYLSDFICCLYGVPSAYGVVT
MPFSVREGINIFLDGYVPTENLRFRDASLVFKVAETANEEVKKMCMYKYPGMKKKMGEFELAIIVAGEFTDSEIM
VMLGENG TGKTTFIRMLAGRLKPDEGGEVPVLNVSYKPQKISPKSTGSRVQLLHEKIRDAYTHPQFVTDVMKPLQ
IENIIDQEVQTLSSGGELQVRRLRLCLGKPADVYLIDEPSAYLDSEQRLMAARVVKRFILHAKKTAFVVEHDFIMA
TYLADRVIVFDGVPSKNTVANSPTLLAGMNKFLSQLEITFRDPNNYRPRINKLNSIKDVEQKKSNGYFFLDD

296/2682
FIGURE 275

CCGGAGGAGTCCGAGAGGAAGCGGAGGCGCGAGCTGGAGGCGGCGGCTCCCGTCGGCCTCCGGCAGGACTGAGCG
CTGGGAGGCCGGAAGGCGGGCGCGCACGGCGGAGAGGCGGGCGGAGGCCGAGCATATTAATGAAAAGTGCCAT
AAACTGAAAAACCAACATGAGGGTAGCAGGTGCTGCAAAGTTGGTGGTAGCTGTGGCAGTGTCTTTACTGACAT
TTTATGTTATTTCTCAAGTATTTGAAATAAAAAATGGATGCAAGTTTAGGAAATCTATTTGCAAGATCAGCATTGG
ACACAGCTGCACGTTCTACAAAGCCTCCAGATATAAGTGTGGGATCTCAAAAGCTTGCCCTGAGAAGCATTG
CTTTTAAATGGCAAGTGGAGCAGCCAACGTGGTGGGACCCAAATCTGCCTGGAAGATAATGTTTTAATGAGTG
GTGTTAAGAATAATGTTGGAAGAGGGATCAATGTTGCCCTTGGCAAATGGAAAAACAGGAGAAGTATTAGACACTA
AATATTTTGACATGTGGGGAGGAGATGTGGCACCATTATTGAGTTTCTGAAGGCCATACAAGATGGAACAATAG
TTTTAATGGGAACATACGATGATGGAGCAACCAAATCAATGATGAGGCACGGCGGCTCATTGCTGATTTGGGGA
GCACATCTATTACTAATCTTGGTTTTAGAGACAACCTGGTCTTCTGTGGTGGGAAGGGCATTAAAGACAAAAAGCC
CTTTTGAACAGCACATAAAGAACAATAAGGATACAAACAAATATGAAGGATGGCCTGAAGTTGTAGAAATGGAAG
GATGCATCCCCAGAAGCAAGACTAATGGAATGTGGAGAGAATTGAAGAAAGCGCACTTTCACTCTTAATGGGA
GAGCTATAAATGGCAGAGCTATGTGTAAATATTTTAAAGAGCATGCAGCCATCTTGGTGTGTGCATGAGTATTGTC
TCTTTTGATATCAGGATTATTTATTGCTAACGTAAATAGATAGCATTGTAAATAATCATCACAATGATCAAATCA
CTGAACCATGTCTCCGCACATTTCCCTAAAAGTACAATGTTTAGACTGCTATGGTAATACATATTTTAAATTCTA
AAAGCATACACAATGTGTAAGTGAATGGTTTGTGAAAAATATATTGATATATATACTAGTTGCTATGAAAATATC
ATGGAATAATAGGGATTTTAGGGTGGTACTTTATTTCTTTTATGTTTCTATATGTTGCGTTGTGATGACATTA
TCTTTTAAATTAAGAGAGATTTGGCTAGTTGTGTGTGTAATGTTACTTTACAGTCCGACTCTCCTGATGTACCT
CTTTTCATGATCTTTTTCTTTCTTCCCAAGAACTGAGGAATGTTTAAATATGAAAACATACATCGGATATGTGA
AAAGCACAAACAAATTTCTAATGTACACAGTAAAAAGTAAATATATAAATGTAGATGGCATTAGGACCACAGC
TTGCTGGATTTGTGTTAGCTATGGGAATAACTTGATTTTGTATAAGCTATTTAGAGTGAGGCTGGAGGTGGCAGC
TTCACAGAAGTGGAGAACCAGGCCAAGTCCCTCCCAACCTAATTAGGTCATTGAGGACAGCTAAGTCAGTATA
TTTAGAGCAATACTAGCATACGTTTTCTTAATTGTTATCAGCATTGACCAAGTGGTTTGGGAAGGAGGCATGCTT
TAATATCACAATAATTTGATTTGTAAACCAAGAAATTAATCCTGTGTTTATCTAAGTTCATAATAGCAATTATT
GCCCCAAGCTATAGTGGCATATTTACAAAAGTTCTTATTACTGGGCGGACTGATAACATTTAAAAATAATTGTG
TTTGACCCCAAATGACTTTTATACCAATTCTACATAAAAAATATAGAAGATCTATCTTTTTTTGTACCTTCAGAT
GTTCACTAAATAACTCAGTTTTTAAGCAGAAGTTTCAGGGCATTAAATATATGTTGTGTATGAAGTATCTCAAA
CTGGAACATAAATTTAGTGATCAAATGCCATTACAGTGTAAGGCAGCACTTAAATTTGCAACCTAAAGTTTAG
ATGCATTGTATAAAAAACCTAAAGCAGTATCTGTTATTTAGCTGTAAACCAAGTTGGAAGCTATTCGGATAAT
TTCTTAAATATTGATGAACTTTGGAGTACTGTTTCTTCTTCAAAGTGAATGTAATTAATTCATGAATAAATGCA
CCTTATATGTTTAAACAATCTTTGTATACTTTTGGGATTTTTGGTGCTTATATGCTAAATCATTACAGCATGTG
TATTTTGACATTTAAATACTTCCCTCAATTCTGTAAATTAAGAATAGTTATTTTACAGTTCAGGGATTGTG
AAATAAATGTTGCAGTTTTTTAAATAATGAAAATAAATACTCTTGGTTTTGCTTTGTGAAAAA

297/2682
FIGURE 276

MRVAGAAKLVVAVAVFLTFYVISQVFEIKMDASLGNLFARSALDTAARSTKPPRYKCGISKACPEKHFAFKMAS
GAANVVGPKICLEDNVLMMSGVKNNVGRGINVALANGKTGEVLDTKYFDMWGGDVAPFIEFLKAIQDGTIVLMGTY
DDGATKLNDEARRLIADLGSTSITNLGFRDNWVFCGGKGIKTKSPFEQHIKNNKDTINKYEGWPEVVEME GCIPQK
QD

298/2682
FIGURE 277

TACTGACTTTTACGACCAACTTGTGGTCCCAGGTAAGTTTCCACGCTGGTACTTTAGCCCTGGGCTCGAACCTGC
GGACACGCTGTGGCTGCAACTCCCCGCCCCGCCAGACCTCAGTACGCAGCGCGGCTGGTGAGAAACATAATGCACT
CTGACTTCCACGCGTGGAATGGGGAGATGGACTGCACGGCGGGCGGACCTGCTCGGGCTGATGGACGGCAGGTGG
ACTGATGTGCGCAGGGACTGGCGGCAGCGCGGTGAGAGCCAGTCAGCCAAAGCCAGGCCAGCACAACTAGACTGTC
CCGGTTCCCCGCCAGGAGGCGGCGGAGCACCAACTGTACGGTACTGCGCCTGCGCCGCGACCGCCAACGCGCCCAG
TCTACGCTTGCGCGGCGCAACAGGGCCGACTGCAGCTGGAAGATGGCGGCGTCCGTGGTCTGTGCGGGCCGCTACC
GCCGGGGCACAAGTGCTATTGCGCGCCCCGCGCTGCGCGGCCCTGCTGCGGACGCCAGCCTTGCGGAGTACGGCA
ACCTTCGCTCAGGCGCTCCAGTTTCGTGCCGGAGACGCAGGTTAGCCTGCTGGACAACGGCCTGCGTGTGGCCTCC
GAGCAGTCTCTCAGCCCACTTGCACGGTGGGAGTGTGGATTGATGTTGGCAGCCGTTTTGAGACTGAGAAGAAT
AATGGGGCAGGCTACTTTTTGGAGCATCTGGCTTTCAAGGGAACAAAGAATCGGCCTGGCAGTGCCTTGAGAAG
GAGGTGGAGAGCATGGGGGCCATCTTAATGCCTACAGCACCCGGGAGCACACAGCTTACTACATCAAGGCGCTG
TCCAAGGATCTGCCGAAAGCTGTGGAGCTCCTGGGTGACATTGTGCAGAACTGTAGTCTGGAAGACTCACAGATT
GAGAAGGAACGTGATGTGATCCTGCGGGAGATGCAGGAGAATGATGCATCTATGCGAGATGTGGTCTTTAACTAC
CTGCATGCCACAGCATTCCAGGGCACACCTCTAGCCAGGCTGTGGAGGGGGCCAGTGAGAATGTCAGGAAGCTG
TCTCGTGCACTTGACCGAGTACCTCAGCACACATTACAAGGCCCTCGAATGGTGCTGGCAGCAGCTGGAGGA
GTGGAGCACCAGCAACTGTTAGACCTCGCCCAGAAGCACCTCGGTGGCATCCCATGGACATATGCAGAGGACGCT
GTGCCCCTCTTACTCCATGCCGCTTCACTGGCAGTGAGATCCGCCACCGTGATGATGCTCTACCTTTTGCCAC
GTGGCCATTGCAGTAGAGGGTCTGGCTGGGCCAGCCGGACAGTGTGGCCTTGCAAGTGCCAATGCCATCATC
GGCCACTATGACTGCACCTTATGGTGGTGGCGTGACCTGTCCAGCCCACTGGCTTCAGGTGCTGTGGCCAAACAG
CTATGCCAGAGTTTCCAGACCTTCAGCATCTGCTATGCAGAGACGGGCTTGCTGGGTGCACACTTTGTCTGTGAC
CGAATGAAAATCGATGACATGATGTTTCGTCCTGCAAGGGCAGTGGATGCGCCTGTGTACCAGTGCCACGGAGAGT
GAGGTGGCCCGGGGCAAAAACATCCTCAGAAATGCCCTGGTATCTCATCTAGATGGCACTACTCCTGTGTGTGAG
GACATCGGACGCAGCCTCCTGACCTATGGCCGCCGATCCCCCTGGCTGAATGGGAAAGCCGGATTGCGGAGGTG
GATGCCAGTGTGGTACGTGAGATCTGCTCCAAGTACATCTATGACCAGTGCCAGCAGTGGCTGGATATGGCCCC
ATTGAGCAGCTCCCAGACTACAACCGGATCCGTAGCGGCATGTTCTGGCTGCGCTTCTAGGCGGGAAGCCTATGT
AAGCAAGAGGGCAGGGCCGGGTTTGTGGTCCCCCCCCCACCACAAACACAGCACTTCGGCTCCTCTAACCTGTG
CCACAGGTGACCACCAATAAAATCCTCTGCTGAGA

299/2682
FIGURE 278

MAASVVCRAATAGAQVLLRARRSPALLRTPALRSTATFAQALQFVPETQVSLLDNGLRVASEQSSQPTCTVGVI
DVGSRFETEKNNAGYFLEHLAFKGTKNRPGSALEKEVESMG AHLNAYSTREHTAYYIKALSKDLPKAVELLGDI
VQNCSEDSQIEKERDVILREMQENDASMRDVVFNYLHATAFQGTPLAQAVEGPS ENVRKLSRADLTEYLS THYK
APRMVLAAAGGVEHQQLDLAQKHLGGIPW TYAEDAVPTLTPCRFTGSEIRHRDDALPFAHVAIAVEGPGWASPD
SVALQVANAIIGHYDCTYGGGVHLSSPLASGAVANKLCQSFQTF SICYAETGLLGAHFVCDRMKIDDMFVLQGG
WMRLCTSATESEVARGKNILRNALVSHLDGTPVCEDIGRSLTYGRRIP LAEWESRIAEVDASV VREICSKYIY
DQCPAVAGYGPIEQLPDYNRIRSGMFWLRF

300/2682
FIGURE 279

GGCACACACGAGGAGGAGGGTTGAGCTGCTGCCGCCGCCCTCTGTCGTCGTCGCGAGTGTGGAGTCGGGACTG
GAGCTGCTGCCGCGGCGACGCCGGGGATCTTTGTCGCTAGCTCCCGGCCCTTCTGCCCGCCGCTTCCCTCAGT
CAGCGTTGCCACTCCTCTCCGGCCGGGCGCCCTGCTCCATTTCTCGCTCTCTGTCCACACACACACGGCCC
CCCCGATCATGGATCCGGGCAGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGCAGCAGCGGCAGCAGCA
GCAGCGACTCGGCGCTGACTGCTGGGACCAGGCGGACATGGAAGCCCCGGGCGGGGCCCTTGCGGCGGCGGCG
GCTTCCCTGGCGGCGGCGGCGGAGGCCAGCGGGAGAACCTCAGCGCGGCTTACGCCGCAACTCAACGTCAAC
GCCAAGCCCTTCTGTGCCAACGTCCACGCCGCCAGTTCTGTGCCGTCTTCTTGC GGCGGCCGCGCAGCGCCCA
CCCCAGCTGGCGGCGGCGGCAATAACCACGGAGCGGCGAGCGGCGGCGGAGGCCGTGCGGCACCTGTGGAATCC
TCTCAAGAGGAACAGTCATTGTGTGAAGGTTCAAATTCAGCTGTTAGCATGGAACCTTTCAGAACCTATTGTAGAA
AATGGAGAGACAGAAATGTCTCCAGAAGAATCATGGGAGCACAAAGAAGAAATAAGTGAAGCAGAGCCAGGGGGT
GGTTCCTTGGGAGATGGAAGGCCGCCAGAGGAAAGTGCCCATGAAATGATGGAGGAGGAAGAGGAAATCCCAAAA
CCTAAGTCTGTGGTTGCACCGCCAGGTGCTCCTAAGAAAGAGCATGTAAATGTAGTATTATTGGGCACGTAGAT
GCTGGCAAGTCAACCATTGGAGGACAAATAATGTATTTGACTGGAATGGTTGACAAAAGGACGCTTGAAAAGTAT
GAAAGAGAAGCTAAAGAGAAAAACAGAGAACTTGGTACTTGTCTTGGGCCTTAGACACAAATCAGGAAGAACGA
GACAAGGGTAAACAGTAGAAGTGGTTCGTGCCTATTTTGAAACCGAAAAGAAGCATTTCACAATTCTAGATGCC
CCTGGCCACAAGAGTTTTGTCCAAATATGATTGGTGGTGCCTCTCAAGCTGATTGGCTGTGCTGGTAATCTCA
GCCAGGAAAGGAGAGTTTGAAACTGGATTTGAAAAAGGAGGACAGACAAGAGAACATGCAATGTTGGCAAAGACA
GCAGGTGTAAACACCTAATTGTGCTAATTAATAAGATGGATGATCCACAGTAAATTGGAGCAATGAGAGATAT
GAAGAATGTAAGGAGAACTAGTGCCATTTTGAAAAAGTTGGCTTCAATCCCAAAAGGACATTCACTTTATG
CCCTGCTCAGGACTTACTGGAGCAATCTCAAAGAGCAGTCGGATTTCTGTCTTGGTACATTGGATTACCGTTT
ATTCCATATCTGGATAATTTGCCGAACCTCAATAGATCAGTTGATGGACCAATCAGGCTGCCAATTGTGGATAAG
TACAAGGATATGGGCACTGTGGTCTGGGAAAGCTGGAATCAGGATCTATTGTAAAGGCCAGCAGCTTGTGATG
ATGCCAAACAAGCACACAGTGAAGTTCTTGAATACTTTCCGATGATGTAGAGACTGATACCGTAGCCCCAGGT
GAAAACCTCAAAATCAGACTGAAAGGAATTGAAGAAGAGGAGATTCTTCCAGGGTTTATACTTTGTGATCCTAAT
AATCTTTGTCAATTCTGGACGCACATTTGATGCCCAGATAGTATTATAGAGCACAAATCCATCATCTGCCCAGGC
TATAATGCGGTGCTGCATATTCATACCTGTATTGAGGAGGTGGAATAACAGCCTTAATCTGCTTGGTAGACAAA
AAATCAGGAGAAAAAAGTAAGACCCGACCCCGTTTTGTGAAACAAGATCAAGTATGCATTGCTCGCTTAAGGACA
GCAGGAACCATCTGCCTTGAGACCTTTAAAGACTTCCCTCAGATGGGTCGTTTACCTTAAGAGATGAGGGTAAG
ACCATTGCAATTGGAAAAGTTCTGAAACTGGTTCCAGAGAAAGACTAAGCATTTTCTTGATGACCCTGCACAATA
CTGTGAGGAAAATTGACTGCAGAAGCCTACTTCACACCGCCTTCTCTTATTTTCTGCCATTGATAAACCTCTCC
CCATATTTTGCAAAGAGGAAATTCACAGCAAAGTCCACATTATGTCAGCTTCTCATATTGAGAGCTCTGCTAT
GCCACTGTTGAATTTTCCCAAGATTCTGTCCCTAGCCCTCACTTCAAACCTCTGCTTCTTGGACAGATTGCGC
AATAGCTTTGTAAGTATGTGGACATAATTGCCTACAATAATGAAAACCTACAGGAATTTTTTTATTTTTCATTT
TCCCCTTAGGCATATTTAGTATTTTCCCCCAGGCCAGATCATTGAGTGTGCGAGTGTGTGTCACATGTTA
CAAAGGCAACTACCATGTTAATAAAATATTCAATTTG

301/2682
FIGURE 280

MELSEPIVENGETEMSPEESWEHKEEISEAEPGGGSLGDGRPPEESAHEMMEEEEEIPKPKSVVAPPGAPKKEHV
NVVFIGHVDAGKSTIGGQIMYLTGMVDKRTLEKYEREAKEKNRETWYLSWALDTNQEERDKGKTVEVGRAYFETE
KKHFTILDAPGHKSFVPMIGGASQADLAVLVISARKGEFETGFEEKGGQTREHAMLAKTAGVKHLIVLINKMDDP
TVNWSNERYEECKEKLVPFLKKVGFNPKKDIHFMPCSGLTGANLKEQSDFCPWYIGLFFIPYLDNLPNFRSVDG
PIRLPIVDKYKDMGTVVVLGKLESGSICKGQQLVMPNKHNVVLGILSDDVETDTVAPGENLKIRLKGIEEEEIL
PGFILCDPNNLCHSGRTFDAQIVIEHKSIIICPGYNAVLHIHTCIEEVEITALICLVDDKKSSEKSKTRPRFVKQD
QVCIARLRTAGTICLETFKDFPQMGRFTLRDEGKTIAIGKVLKLVPEKD

302/2682
FIGURE 281

GCGGCGCTCGCGCCAAGGGACGTGTTTTCTGCGCTCGCGTGGTCAATGGAGGCGCTGCCGCTGCTAGCCGCGACAAC
TCCGGACCACGGCCGCCACCGAAGGCTGCTTCTGCTGCCGCTACTGCTGTTCTGCTGCCGGCTGGAGCTGTGCA
GGGCTGGGAGACAGAGGAGAGGCCCGGACTCGCGAAGAGGAGTGCCACTTCTACGCGGGTGGACAAGGTACCC
GGGAGAGGCATCCCGGGTATCGGTGCGCGACCACTCCCTGCACCTAAGCAAAGCGAAGATTTCCAAGCCAGCGCC
CTACTGGGAAGGAACAGCTGTGATCGATGGAGAATTTAAGGAGCTGAAGTTAACTGATTATCGTGGGAAATACTT
GGTTTTCTTCTTCTACCCACTTGATTTACATTTGTGTGTCCAAGTAAATTATCGCTTTTGGCGACAGACTTGA
AGAATTCAGATCTATAAATACTGAAGTGGTAGCATGCTCTGTTGATTACAGTTTACCCATTTGGCCTGGATTAA
TACCCCTCGAAGACAAGGAGGACTTGGGCCAATAAGGATTCCACTTCTTTCAGATTTGACCCATCAGATCTCAA
GGACTATGGTGTATACCTAGAGGACTCAGGCCACACTCTTAGAGGTCTCTTCATTATTGATGACAAAGGAATCCT
AAGACAAATTACTCTGAATGATCTTCTGTGGGTAGATCAGTGGATGAGACACTACGTTTGGTTCAAGCATTCCA
GTACACTGACAAACACGGAGAAGTCTGCCCTGCTGGCTGGAAACCTGGTAGTGAAACAATAATCCAGATCCAGC
TGGAAGCTGAAGTATTTTCGATAAACTGAATTGAGAAATACTTCTTCAAGTTATGATGCTTGAAAGTTCTCAATA
AAGTTCACGGTTTCATTACCA

303/2682
FIGURE 282

MEALPLLAATTPDHGRHRRLLLLPLLLFLLPAGAVQGWETEERPRTREEECHFYAGGQVYPGEASRVSVADHSLH
LSKAKISKFPAPYWEGTAVIDGEFKELKLTDIRGKYLVFFFYPLDFTFVCPTEIIAFGDRLEEFRSINTEVVACSV
DSQFTHLAWINTPRRQGGGLGPIRIPLLSDLTHQISKDYGVYLED SGHTLRGLFIIDDKGILRQITLNDLPVGRSV
DETLRLVQAFQYTDKHGEVCPAGWKPGSETIIPDPAGKLKYFDKLN

FIGURE 283

GGAAAAAGCGACTTGTGGCGGTGAGCGTGGCGCAGGCGAATCCTCGGCACTAAGCAAATATGGACCTCGCGGC
GGCAGCGGAGCCGGGCGCCGGCAGCCAGCACCTGGAGGTCCGCGACGAGGTGGCCGAGAAGTGCAGAAACTGTT
CCTGGACTTCTTGGAGGAGTTTCAGAGCAGCGATGGAGAAATTAATACTTGCAATTAGCAGAGGAAGTATTGCG
TCCTGAGAGAAACACATTGGTTGTGAGTTTTGTGGACCTGGAACAATTTAACCAGCAACTTTCCACCACCATTCA
AGAGGAGTTCTATAGAGTTTACCCTTACCTGTGTCGGGCCTTGAAAACATTTCGTCAAAGACCGTAAAGAGATCCC
TCTTGCCAAGGATTTTTATGTTGCATTCCAAGACCTGCCTACCAGACACAAGATTGAGAGCTCACCTCATCCAG
AATTGGTTTTGCTCACTCGCATCAGTGGGCAGGTGGTGGGACTCACCCAGTTCACCCAGAGCTTGTGAGCGGAAC
TTTTCTGTGCTTGGACTGTCAGACAGTGATCAGGGATGTAGAACAGCAGTTCAAATACACAGCCAAACATCTG
CCGAAATCCAGTTTGTGCCAACAGGAGGAGATTCTTACTGGATACAAATAAATCAAGATTTGTTGATTTTCAAAA
GGTTCGTATTCAAGAGACCCAGCTGAGCTTCTCGAGGGAGTATCCCCGCGAGTTTGAAGTAATTTTAAGGGC
TGAAGCTGTGGAATCAGCTCAAGCTGGTGACAAGTGTGACTTTACAGGGACACTGATTGTTGTGCTGACGTCTC
CAAGCTTAGCACACCAGGAGCAGTGCAGAACTAATTCCTGTGTCAGTGGTGTGATGGATATGAGACAGAAGG
CATTGAGGACTCCGGGCCCCTTGGTGTAGGGACCTTTCTTATAGGCTGGTCTTTCTGCTGTGTTGCGCC
AACCAACCCAGGTTTGGGGGAAAGAGCTCAGAGATGAGGAACAGACAGCTGAGAGCATTAGAACCAGTATGAC
TGTGAAAGAATGGGAGAAAGTGTGAGATGAGTCAAGATAAAATCTATACCACATCTTTGTACCAGCCTGTT
CCCTACTATACATGGCAATGATGAAGTAAACGGGGTGTCTGTGATGCTCTTTGGTGGCGTTCCAAAGACAAC
AGGAGAAGGGACCTCTCTTCGAGGGGACATAAATGTTGCATTGTTGGTGACCAAGTACAGCTAAGAGCCAATT
TCTCAAGCAGCTGGAGGAGTTCAGCCCCAGAGCTGTCTACACAGTGGTAAAGCGTCCAGTGTCTGCTGGCTTAAC
AGCAGCTGTTGTGAGAGATGAAGAATCTCATGAGTTTGTCAATTGAGGCTGGAGCTTTGATGTTGGCTGATAATGG
TGTGTGTTGATTGATGAATTTGATAAGATGGACGTGCGGGATCAAGTTGCTATTTCATGAAGCTATGGAACAGCA
GACCATATCCATCACTAAAGCAGGAGTGAAGGCTACTCTGAACGCCCGGACGTCCATTTTGGCAGCAGCAAACCC
AATCAGTGGACACTATGACAGATCAAAATCATTGAAACAGAATATAAATTTGTCAGCTCCCATCATGTCCCGATT
CGATCTCTTTTATCCTTGTGGATGAATGTAATGAGGTTACAGATTATGCCATTGCCAGGCGCATAGTAGATT
GCATTCAAGAATTGAGGAATCAATTGATCGTGTCTATTCCCTCGATGATATCAGAAGATATCTCTCTTTGCAAG
ACAGTTTAAACCCAAGATTTCCAAAGAGTCAGAGGACTTCATTGTGGAGCAATATAACATCTCCGCCAGAGAGA
TGGTCTGAGAGTGACCAAGTCTTCATGGAGGATTACAGTGCACAGCTTGAGAGCATGATTGCTCTCTCTGAAGC
TATGGCTCGGATGCACTGCTGTGATGAGGTCCAACCTAAACATGTGAAGGAAGCTTTCCGGTTACTGAATAAATC
AATCATCCGTGTGGAACACCTGATGTCAATCTAGATCAAGAGGAAGAGATCCAGATGGAGGTAGATGAGGGTGC
TGGTGGCATCAATGGTCATGCTGACAGCCCTGCTCCTGTGAACGGGATCAATGGCTACAATGAAGACATAAATCA
AGAGTCTGCTCCCAAAGCCTCCTTAAGGCTGGGCTTCTCTGAGTACTGCCGAATCTCTAACCTTATTGTGCTTCA
CCTCAGAAAGGTGGAAGAAGAAGAGGACGAGTCAGCATTAAAGAGGAGCGAGCTTGTTAACTGGTACTTGAAGGA
AATCGAATCAGAGATAGACTCTGAAGAAGAACTTATAAATAAAAAAGAATCATAGAGAAAGTTATTCATCGACT
CACACACTATGATCATGTTCTAATTGAGCTCACCCAGGCTGGATTGAAAGGCTCCACAGAGGGAGTGAGAGCTA
TGAAGAAGATCCCTACTTGGTAGTTAACCTAACTACTTGCTCGAAGATTGAGATAGTGAAAGTAACTGACCAGA
GCTGAGGAAGTGTGGCACAGCACCTCGTGGCCTGGAGCCTGGCTGGAGCTCTGCTAGGGACAGAAGTGTCTTCTGG
AAGTGATGCTTCCAGGATTTGTTTTCAGAAACAAGAATTGAGTTGATGGTCCTATGTGTACATTTCATCACAGGT
TTCATACCAACACAGGCTTCAGCACTTCCTTTGGTGTGTTTCCGTGCCAGTGAAGTTGGAACCAATAATGTGT
AGTCTCTATAACCAATACCTTTGTTTTCATGTGTAAGAAAAGGCCATTACTTTAAGGTATGTGCTGTCTCTATT
GAGCAAATAACTTTTTTTCAATTGCCAGCTACTGCTTTTATTTCATCAAAATAAAATAAATTGTTCTG

305/2682
FIGURE 284

MDLAAAEPGAGSQHLEVRDEVAEKCQKFLDFLEEFQSSDGEIKYLQLAEELIRPERNTLVVSFVDLEQFNQQL
STTIQEEFYRVYPYLCRALKTFVKDRKEIPLAKDFYVAFQDLPTRHKIRELTSSRIGLLTRISGQVVRTHPVHPE
LVSGTFLCLDCQTVIRDVEQQFKYTQPNICRNPVCANRRRFLDTNKS RFVDFQKVRIQETQAELPRGSIPRSLE
VILRAEAVESAQAGDKCDFGTGLIVVPDVSKLSTPGARAETNSRVSGVDGYETEGIRGLRALGVRDLSYRLVFLA
CCVAPTNPFRGGKELRDEEQTAESIKNQMTVKEWEKVFEMSQDKNLYHNLCTSLFPTIHGNDVKGVLMLFGG
VPKTTGEGTSLRGDINVCIVGDPSTAKSQFLKHVEEFSPRAVYTSKGASSAAGLTA AVVRDEESHEFVIEAGALM
LADNGVCCIDEFDKMDVRDQVAIHEAMEQQTISITKAGVKATLNARTSILAAANPISGHYDRSKSLKQNINLSAP
IMSRFDLFFILVDECNEVTDYAIARRIVDLHSRIEESIDRVYSLDDIRRYLLFARQFKPKISKESEDFIVEQYKH
LRQRDGSVTKSSWRITVRQLESMIRLSEAMARMHCCDEVQPKHVKEAFRLNKSII RVETPDVNLDQEEEIOME
VDEGAGGINGHADSPAPVNGINGYNEDINQESAPKASLRLGFSEYCRISNLIVLHLRKVEEEEDESALKRSELVN
WYLKEIESEIDSEEELINKKRIIEKVIHRLTHYDHVLIELTQAGLKGSTEGSES YEEDPYLVVNPNYLLED

306/2682
FIGURE 285

GCCCCACCATCAAGGGGAAGAAAGTGCTCTTCGGATTCCGGTTTCGCCCTGGCCTCCCGCAGCCGCCGCGGGACC
GGCCCCAGCACACCCCGGGCGCGGGCGCGGGGCAGCCGCCCGGACGCGCGGGGCTCAGGCGCGCGGGG
ACCCAGCCCCCAAACCTTTGGCAAGTTGCGGGCGCCGAGCGCACCCGGAGGCGCGGGGCGCGGCCGAGGCGGA
GCCGCCCCCTGACGCCGGGGCGCCCCCTCCCGGCCCGGCCGCCCGGCTCCGCGGAAAGTTTGGGCGCGCC
CCTGCGCCGCACCCGGGGCCTGGGTGAGACTGCGGCGGGCAGGGCGCGGACGGCCATATTTGCCGCGCGGGC
CGAGCCGCCGACAACAAAAGTGCGCGGGCGCTCGGCGGGCGCTCGGACGGGCGCGGGGCTGCAGCGCTACCGCC
CGGCCTCGCCGCCCGCCGCCGCCCTCGCGGCCTGGCCCCGCCGCGCCCGGCGCGCCCGCGGGGGGATG

TCTTACAAACCGAACTTGGCCGCGCACATGCCCCGCCGCCCTCAACGCCGCTGGGAGTGTCCTCGCCTTCC
ACCAGCATGGCAACGTCTTCACAGTACCGCCAGCTGCTCAGTGACTACGGGCCACCGTCCCTAGGCTACACCCAG
GGAAGTGGGAACAGCCAGGTGCCCCAAAGCAAATACGCGGAGCTGCTGGCCATCATTGAAGAGCTGGGGAAGGAG
ATCAGACCCACGTACGCAGGGAGCAAGAGTGCCATGGAGAGGCTGAAGCGCGGCATCATTACGCTAGAGGACTG
GTTCCGGGAGTGCTTGGCAGAAACGGAACGGAATGCCAGATCCTAGCTGCCTTGTTGGTTTTGAAGGATTTCCATC
TTTTTACAAGATGAGAAGTTACAGTTCATCTCCCTGTTTCAGATGAAACCTTGTTTTCAAATGGTTACAGTTT
CGTTTTTCTCCCATGGTTCACCTGGCTCTGAACCTACAGTCTCAAAGATTGAGAAAAGATTTGCAGTTAATTA
GGATTTGCATTTTAAGTAGTTAGGAAGTGGCCAGGTTTTTTTTGTTTTTAAGCATTGATTTAAAAGATGCACGG
AAAGTTATCTTACAGCAAAGTGTAGTTTGCTTCAAGACACCATTGTCTCCCTTTAATCTTCTCTTTGTATACA
TTTGTTACCCATGGTGTCTTTGTTCTTTTCATAAGCTAATACCACTGTAGGGATTTGTTTTGAACGCATATT
GACAGCACGCTTTACTTAGTAGCCGTTCCCATTTGCCATACAATGTAGGTTCTGCTTAATGTAACCTCTTTTTT
GCTTAAGCATTGTCATGACTATTAGTGCTTCAAAGTCAATTTTTAAAAATGCACAAGTTATAAATACAGAAGAAA
GAGCAACCCACCAAACCTAACAAGGACCCCGAACACTTTCATACTAAGACTGTAAGTAGATCTCAGTTCTGCGT
TTATTGTAAGTTGATAAAAAACATCTGGAAGAAAATGACTAAAGTGTGTCATCTTTGTATGATTTATTACTTG
ATGTAATAAGCTTATTTTCATTAACAATTGTATTAAAAA

307/2682
FIGURE 286

MSYKPNLAAHMPAAALNAAGSVHSPSTSMATSSQYRQLLSDYGPPSLGYTQGTGNSQVPQSKYAELLAIIEELGK
EIRPTYAGSKSAMERLKRGIHARGLVRECLAETERNARS

FIGURE 287A

GCGGGGAAGCAGCAGCGGCCAGGATGAATCCAGGTGCTCTGGAGCTGGATGGTGAAGGTGGCACTCTTCACCC
TCCCGAGCCCTGCCCGTCTCGGCCCATGCCCCACCAGTCAGCCCCGGGCCACAGGCAGTGAGCAGGCACCTGG
GAGCCGAGGCCCTGTGACCAGGCCAAGGAGACGGGCGCTCCAGGGTCCAGCCACCTGTCCCCCATGGAGCTG
AGGCCCTGGTTGCTATGGGTGGTAGCAGCAACAGGAACCTTGGTCCTGCTAGCAGCTGATGCTCAGGGCCAGAAG
GTCTTCACCAACACGTGGGCTGTGCGCATCCCTGGAGGCCACGGTGGCCACAGTGTGGCACGGAAGCATGGG
TTCTCAACCTGGGCCAGATCTTCGGGACTATTACCACTTCTGGCATCGAGGAGTGACGAAGCGGTCCCTGTGCG
CCTACCCGCCCGGGCACAGCCGGCTGCAGAGGGAGCCTCAAGTACAGTGGCTGGAACAGCAGTGGCAAAGCGA
CGGACTAAACGGGACGTGTACCAGGAGCCCACAGACCCCAAGTTTCTCAGCAGTGGTACCTGTCTGGTGTCACT
CAGCGGGACCTGAATGTGAAGCGGCCTGGGCGCAGGGCTACACAGGACACGGCATTGTGGTCTCCATTCTGGAC
GATGGCATCGAGAAGAACCACCCGGACTTGGCAGGCAATTATGATCCTGGGGCCAGTTTGTATGTCATGACCAG
GACCCTGACCCCCAGCCTCGGTACACACAGATGAATGACAACAGGCACGGCACACGGTGTGCGGGGAAGTGGCT
GCGGTGGCCAAACAGGTGTCTGTGGTGTAGGTGTGGCCTACAACGCCCGCATTGGAGGGGTGCGCATGCTGGAT
GGCGAGGTGACAGATGACGTGGAGGCACGCTCGCTGGGCCTGAACCCCAACACATCCACATCTACAGTGCCAGC
TGGGGCCCCGAGGATGACGGCAAGACAGTGGATGGGCCAGCCCGCCTCGCCGAGGAGGCCTTCTTCGTGGGGTT
AGCCAGGGCCGAGGGGGGCTGGGCTCCATCTTTGTCTGGGCCTCGGGGAACGGGGGCCGGGAACATGACAGCTGC
AACTGCGACGGCTACACCAACAGTATCTACACGCTGTCCATCAGCAGCGCCACGCAGTTTGGCAACGTGCCGTGG
TACAGCGAGGCCCTGCTCGTCCACACTGGCCACGACCTACAGCAGTGGCAACCAGAATGAGAAGCAGATCGTGACG
ACTGACTTGGCGCAGAAGTGCACGGAGTCTCACACGGGCACCTCAGCCTCTGCCCCCTTAGCAGCCGGCATCATT
GCTCTACCCCTGGAGGCCAATAAGAACCTCACATGGCGGGACATGCAACACCTGGTGGTACAGACCTCGAAGCCA
GCCCCACCTCAATGCCAACGACTGGGCCACCAATGGTGTGGGCCGAAAGTGAGCCACTCATATGGCTACGGGCTT
TTGGACGCAGGCGCCATGGTGGCCCTGGCCAGAATTGGACCACAGTGGCCCCCAGCGGAAGTGCATCATCGAC
ATCTCACCAGAGCCCAAGACATCGGGAAACGGCTCGAGGTGCGGAAGACCGTGACCGCTGCCTGGGCGAGCCC
AACCACATCACTCGGCTGGAGCACGCTCAGGCGCGGCTCACCTGTCTATAATCGCCGTGGCGACCTGGCCATC
CACCTGGTCAGCCCCATGGGCACCCGCTCCACCCTGCTGGCAGCCAGGCCACATGACTACTCCGCAGATGGGTTT
AATGACTGGGCCTTCATGACAACTCATTCTGGGATGAGGATCCCTCTGGCGAGTGGGTCTTAGAGATTGAAAC
ACCAGCGAAGCCAACAACATATGGGACGCTGACCAAGTTACCCCTCGTACTCTATGGCACCGCCCCTGAGGGGCTG
CCCGTACCTCCAGAAAGCAGTGGCTGCAAGACCCCTACGTCCAGTCAGGCCTGTGTGGTGTGCGAGGAAGGCTTC
TCCCTGCACCAGAAGAGCTGTGTCCAGCACTGCCCTCCAGGGTTTCGCCCCCAAGTCTCGATACGCACTATAGC
ACCGAGAATGACGTGGAGACCATCCGGGCCAGCGTCTGCGCCCCCTGCCACGCCTCATGTGCCACATGCCAGGGG
CCGGCCCTGACAGACTGCCTCAGCTGCCCCAGCCACGCCTCCTTGGAACCTGTGGAGCAGACTTGCTCCCGGCAA
AGCCAGAGCAGCCGAGAGTCCCCGCCACAGCAGCAGCCACCTCGGCTGCCCCCGAGGTGGAGGCGGGGCAACGG
CTGCGGGCAGGGCTGTGCCCTCACACCTGCCTGAGGTGGTGGCCGGCCTCAGCTGCGCCTTCATCGTGTGGT
TTCTGCTACTGTCTTCTGGTCTCTGAGCTGCGCTCTGGCTTTAGTTTTCGGGGGGTGAAGGTGTACACCATGGAC
CGTGGCCTCATCTCTTACAAGGGGCTGCCCTTGAAGCCTGGCAGGAGGAGTGGCCGTCTGACTCAGAAGAGGAC
GAGGGCCGGGGCGAGAGGACCGCCTTTATCAAAGACCAGAGCGCCCTCTGATGAGCCCACTGCCACCCCTCAA
GCCAATCCCTCCTTGGGCACTTTTTAATTCACCAAGTATTTTTTATCTTGGGACTGGGTTTGGACCCACAGCT
GGGAGGCAAGAGGGGTGGAGACTGCTTCCCATCTACCTCGGGCCACCTGGCCACCTGAGGTGGGCCCAGGAC
CAGCTGGGGCGTGGGAGGGCGTACCCACCCCTCAGCACCCCTTCCATGTGGAGAAAGGAGTGAAACCTTTAGG
GCAGCTTGCCCCGGCCCCGGCCCCAGCCAGAGTTCTGCGGAGTGAAGAGGGGCAGCCCTTGCTTGTGGGATT
CTGACCCAGGCGCAGCTCTTGCCCTTCCCTGTCCCTCTAAAGCAATAATGGTCCCATCCAGGCAGTCGGGGGCT
GGCCTAGGAGATATCTGAGGGAGGAGGCCACCTCTCCAAGGGCTTCTGCACCCTCCACCCTGTCCCCAGCTCTG
GTGAGTCTTGGCGGCAGCAGCCATCATAGGAAGGGACCAAGGCAAGGCAGGTGCCTCCAGGTGTGCACGTGGCAT
GTGGCCTGTGGCCTGTGTCCCATGACCCACCCCTGTGCTCCGTGCCTCCACCACCACTGGCCACCAGGCTGGCGC
AGCCAAGGCCGAAGCTCTGGCTGAACCTGTGCTGGTGTCTGACCAACCTCCCTCTCTTGACCCGCCTCTCC
CGTCAGGGCCCAAGTCCCTGTTTTCTGAGCCCGGGCTGCCTGGGCTGTTGGCACTCACAGACCTGGAGCCCTGG
GTGGGTGGTGGGAGGGGCGCTGGCCAGCCGGCCTCTCTGGCCTCCACCCGATGCTGCTTTCCCTGTGGGGA
TCTCAGGGGCTGTTGAGGATATATTTCACTTTGTGATTATTTCACTTTAGATGCTGATGATTGTTTTGTAT
TTTTAATGGGGGTAGCAGCTGGACTACCCACGTTCTCACACCCACCGTCCGCCCTGTCTCCCTGGCTGCCCTG

309/2682
FIGURE 287B

GCCCTGAGGTGTGGGGGCTGCAGCATGTTGCTGAGGAGTGAGGAATAGTTGAGCCCCAAGTCCTGAAGAGGCGGG
CCAGCCAGGCGGGCTCAAGGAAAGGGGTCCCAGTGGGAGGGGCAGGCTGACATCTGTGTTCAAGTGGGGCTCG
CCATGCCGGGGGTTCATAGGTCAGTGGCTCTCCAAGTGCCAGAGGTGGGCAGGTGGTGGCACTGAGCCCCCCAA
CACTGTGCCCTGGTGGAGAAAGCACTGACCTGTCATGCCCCCTCAAACCTCCTCTTCTGACGTGCCTTTTGCAC
CCCTCCCATTAGGACAATCAGTCCCCCTCCCATCTGGGAGTCCCCCTTTTCTTTTCTACCCTAGCCATTCTGGTAC
CCAGCCATCTGCCCAGGGGTGCCCCCTCCTCTCCCATCCCCCTGCCCTCGTGGCCAGCCGGCTGGTTTGTAAAG
ATGCTGGGTTGGTGCACAGTGATTTTTTCTTGTAATTTAAACAGGCCCAGCATTGCTGGTTCTATTTAATGGAC
ATGAGATAATGTTAGAGGTTTTAAAGTGATTAAACGTGCAGACTATGCAAACCAG

310/2682
FIGURE 288

MELRPWLLWVVAATGTLVLLAADAQGQKVFTNTWAVRIPGGPAVANSVARKHGFLNLGQIFGDYYHFHVRGVTKR
SLSPHRPRHSRLQREPQVQWLEQQVAKRRTKRDVYQEPTDPKFPQQWYLSGVTQRDLNVKAAWAQGYTGHGIVVS
ILDDGIEKNHPDLAGNYDPGASFVDNDQDPDPQPRYTQMNDNRHGTRCAGEVAAVANNGVCGVGVAYNARIGGVR
MLDGEVTDAVEARSLGLNPNHIHIYSASWGPEDDGKTVDGPARLAEEAFFRGVSQGRGGLGSIFVWASGNNGGREH
DSCNCDGYTNSIYTLSSISSATQFGNVPWYSEACSSTLATTYSSGNQNEKQIVTTDLRQKCTESHTGTSASAPLAA
GIIALTLEANKNLTWDRMQHLVVQTSKPAHLNANDWATNGVGRKVSYSYGYLLDAGAMVALAQNWTTVAPQRKC
IIDILTEPKDIGRLEVRKTVTACLGEPNHITRLEHAQARLTLSYNRRGDLAIHLVSPMGTRSTLLAARPHDYSA
DGFNDWAFMTTHSWDEDPSGEWVLEIENTSEANNYGTLTKFTLVLYGTAPEGLPVPPESSGCKTLTSSQACVVCE
EGFSLHQKSCVQHCPPGFAPQVLDTHYSTENDVETIRASVCAPCHASCATCQGPALTDCLSCPSHASLDPVEQTC
SRQSQSSRESPPQQQPPRLPPEVEAGQRLRAGLLPSHLPEVVAGLSCAFIVLVFTVFLVLQLRSGFSFRGVKVY
TMDRGLISYKGLPPEAWQEECPDSEEDGRGERTAFIKDQSAL

311/2682
FIGURE 289

CTGGTCCCAGACGAGCTGTGAGGGGATTCACTTGTGTGCGGAACCTCCTCGGAACCATGCGGTCCCTTTCCCTT
GCACCTGTTAAACATCTTTAAGGCAGGAGCTGATGAAGAGAGAGCAGAGACAGCTCGTCTGACTTCTTTATTGGT
GCCATCGCCATTGGAGACTTGGTAAAGAGCACCTTGGGACCCAAAGGCATGGACAAAATTCTTCTAAGCAGTGGA
CGAGATGCCCTCTCTTATGGTAACCAATGATGGTGCCACTATTCTAAAAAACATTGGTGTTGACAATCCAGCAGCT
AAAGTTTTAGTTGATATGTCAAGGGTTCAAGATGATGAAGTTGGTGATGGCACTACCTCTGTTACCGTTTTAGCA
GCAGAATTATTAAGGGAAGCAGAATCTTTAATTGCAAAAAAGATTATCCACAGACCATCATAGCGGGTTGGAGA
GAAGCCACGAAGGCTGCAAGAGAGGCGCTGTTGAGTTCTGCAGTTGATCATGGTTCCGATGAAGTTAAATCCGT
CAAGATTTAATGAATATTGCGGGCACAACATTATCCTCAAACTTCTTACTCATCACAAGACCCTTTACAAAG
TTAGCTGTAGAAGCAGTTCTCAGACTGAAAGGCTCTGGCAACCTGGAGGCAATTCATATTATCAAGAAGCTAGGA
GGAAGTTTGGCAGATTCTATTAGATGAAGGCTTCTGTTGGATAAAAAAATTGGAGTAAATCAACCAAAACGA
ATTGAAAATGCTAAAATTCTTATTGCAAATACTGGTATGGATACAGACAAAATAAAGATATTTGGTTCCCGGGTA
AGAGTTGACTCTACAGCAAAGGTTGCAGAAATAGAACATGCGGAAAAGGAAAAAATGAAGGAGAAAGTTGAACGT
ATTCTTAAGCATGGAATAAATTGCTTTATTAACAGGCAATTAATTTATAATTATCCTGAACAGCTCTTTGGTGCT
GCTGGTGTCAAGGCTATTGAGCATGCAGATTTTGAGGTGTGGAACGCCTAGCTCTTGTACAGGTGGTGAAATT
GCCCTACCTTTGATCACCCAGAACTGGTGAAGCTTGAAGTTGCAAACCTATCGAGGAAGTCATGATTGGAGAA
GACAAACTCATTCACTTTTTCTGGGGTTGCCCTTGGTGAGGCTTGTACCATTGTTTTGCGTGGTGCCACTCAACAA
ATTTTAGATGAAGCAGAAAGATCATTGCATGATGCTCTTTGTGTTCTTGCGCAAACTGTAAAGGACTCTAGAACA
GTTTATGGAGGAGGCTGTTCTGAGATGTTGATGGCTCATGCTGTGACACAGCTTGCCAATAGAACACCAGGCAAA
GAAGCTGTTGCAATGGAGTCTTATGCTAAAGCACTGAGAATGTTGCCAACCATCATAGCTGACAATGCAGGCTAT
GACAGTGACAGACCTGGTGGCAGAGCTCAGGGCTGCTCAGTGGAAGGCAATACCACTGCTGGATTGGATATGAGG
GAAGGCACCATTGGAGATATGGCTATCCTGGGTATAACAGAAAGTTTTCAAGTGAAGCGACAGGTTCTTCTGAGT
GCAGCTGAAGCAGCAGAGGTGATTCTGCGTGTGGACAACATCATCAAAGCGGCACCCAGGAAACGTGTCCCTGAT
CACCACCCCTGTTAAAGCATTCCCACGTGCTGTGATCTTTGGACCAGTTTCTAGCAAAGTTGTGTTTGAAGATA
CTCTATTAAAGAAGACTGTGGAATCTGTTTATCGGTGCCCATATATCCTTAAGTTTGGATATTTAGCTGACCTT
CGCTTTAACATAGGTCTAATTTATTGCGGTGTCATTTCCATACAAATCAGTTGATTTAAAGGAGTTTCATTTG
CATACTGGGCATTAAAATAAAAATTGAACAATGAAAGGAAAAAAGGAGAAAAA

312/2682

FIGURE 290

MASLSLAPVNIFKAGADEERAETARLTSFIGAIAIGDLVKSTLGPKGMDKILLSSGRDASLMVTNDGATILKNIG
VDNPAKVLDMSRVQDDEVGDGTTSTVLAELREAESLIAKKIHPQTIIAGWREATKAAREALLSSAVDHGS
DEVKFRQDLMNIAGTTLSSKLLTHHKDHFTKLAVEAVLRLKSGNLEAIIKKLGGSLSYLDGFLDKKIG
VNQPKRIENAKILIAN TGMDTDKIKIFGSRVRVDSTAKVAEIEHAEKEKMEKVERILKHGINCFINRQLIYNYP
EQLFGAAGVMAIEHADFAGVERLALVTGGEIASTFDHPELVKLGSKLIEEVMIGEDKLIHFSGVALGEACTIVL
RGATQQILDEAERSLHDALCVLAQTVKDSRTVYGGGCSEMLMAHAVTQLANRTPGKEAVAMESYAKALRMLPTII
ADNAGYDSADLVAQLRAAHSEGNTTAGLDMREGTIGMAILGITESFQVKRQVLLSAAEAAEVILRVDNIKAAP
RKRVPDHHPC

313/2682
FIGURE 291

GCCTGAGTGAGTCTCTGGCGTCCCAAATTGCCTGTTTTTCTCGCAGGCTCTATTCCGTTGCTGGTTCGCCACCT
CAGGGGAACGATGGCCATGGAGTCCACAGCCACTGCCGCCGTGCCCGGACGTGGTTTCTGCCGACAAAATTGA
AGATGTCCTTGCTCCTTCTACATCTGCAGATAAAGTGGAGAGTCTGGATGTGGATAGTGAAGCTAAGAACTATT
GGGTTTAGGACAGAAACATCTGGTGATGGGGGATATTCCAGCAGCTGTCAATGCATTCCAGGAAGCAGCTAGTCT
TTTAGGTAAGAAGTATGGAGAGACAGCTAATGAGTGTGGAGAAGCCTTCTTTTTCTATGGGAAATCACTTCTGGA
GTTGGCAAGAATGGAGAATGGTGTGTTGGGAAACGCCTTGGAAAGGTGTGCATGTGAAGAGGAAGAAGGAGAAAA
AACAGAAGATGAATCTCTGGTAGAAAATAATGATAACATAGATGAGGAAGCAAGGGAAGAGTTGAGAGAACAGGT
TTATGACGCCATGGGAGAAAAAGAAGCCAAAAAACAGAAGACAAGTCTTTGGCAAAGCCTGAAACTGATAA
AGAACAGGACAGTGAAATGGAGAAGGGTGAAGAGAAGATATGGATATAAGTAAATCTGCAGAGGAGCCACAGGA
AAAAGTTGACTTGACTCTAGATTGGTTAACTGAAACCTCTGAAGAGGCAAAAGGAGGAGCAGCACCAGAAGGACC
GAATGAAGCTGAGGTCACTTCTGGGAAGCCAGAACAGGAAGTACCAGATGCTGAGGAAGAAAAATCAGTTTCTGG
AACTGATGTCCAAGAAGAGTGCAGAGAAAAAGGAGGTGAGGAGAAGCAGGGAGAGGTAATTGTGAGCATAGAGGA
GAAGCCAAAAGAAGTTTTAGAAAGAGCAGCCTGTGGTGACTCTAGAAAAGCAGGGCACTGCAGTGGAGGTAGAAGC
AGAGTCTTTAGACCCGACAGTCAAGCCAGTGGATGTGGGTGGGGACGAGCCAGAGGAGAAGGTAGTTACCTCTGA
AAACGAGGCAGGAAAGGCGGTTCTTGAACAACCTGGTAGGTCAAGAAGTACCACCTGTGAAGAGTACCAGAGGT
GCAAAACAGAGGCTGCAGAGGCCTCAGCTGTAGAGGCTGGATCAGAAGTCTCTGAAAAGCCTGGGCAGGAGGCTCC
AGTTCTCCCTAAGGATGGTGCAGTCAATGGACCGTCAGTTGTAGGAGATCAGACTCCTATTGAACCACAGACTTC
TATAGAAAGACTGACAGAAACAAAAGATGGCTCAGGACTAGAGGAGAAGGTGAGGGCAAAGCTGGTTCTTAGTCA
GGAGGAGACTAAGCTGTCTGTAGAAGAGTCTGAGGCAGCTGGAGATGGGGTTGATACCAAGGTAGCCAGGGAGC
TACTGAGAAATCACCTGAAGACAAAGTTCAGATAGCTGCTAATGAAGAGACACAAGAGAGAGAAGAACAGATGAA
AGAGGGTGAAGAACTGAAGGCTCGGAAGAGGATGATAAAGAAAATGATAAGACTGAAGAAATGCCAAATGATTCT
AGTCCTTGAAAACAAGTCTCTTCAAGAAAATGAGGAGGAGGAGATTGGGAACCTAGAGCTTGCCTGGGATATGCT
GGATTTAGCAAAGATCATTTTTTAAAAGGCAAGAAACAAAAGAAGCACAGCTTTATGCTGCCAGGCACATCTTAA
ACTCGGAGAAGTTAGTGTGAATCTGAAAACATATGTGCAAGCTGTGGAGGAGTTCAGTCCCTGCCTTAACCTGCA
GGAACAGTACCTGGAAGCCACGACCGTCTGCTTGCAGAGACCCACTACCAGCTGGGCTTGGCTTATGGGTACAA
CTCTCAGTATGATGAGGCAGTGGCACAGTTCAGCAAATCTATTGAAGTCATTGAGAACAGAATGGCTGTACTAAA
CGAGCAGGTGAAGGAGGCTGAAGGATCGTCTGAATACAAGAAAGAAATTGAGGAACATAAGGAAGTCTACCCGA
AATTAGAGAGAAGATAGAAGATGCAAAGGAGTCTCAGCGTAGTGGGAATGTAGCTGAACTGGCTCTGAAAGCTAC
TCTGGTGGAGAGTTCTACTTCAGGTTTCACTCCTGGTGGAGGAGGCTCTTCAGTCTCCATGATTGCCAGTAGAAA
GCCAACAGACGGTGCTTCTCATCAAATTGTGTGACTGATATTCCCACCTTGTGAGAAAGAAGAGGAAACCAGA
GGAAGAGAGTCCCCGAAAGATGATGCAAAGAAAGCCAAACAAGAGCCGGAGGTGAACGGAGGCACTGGGGATGC
TGTCCCGAGTGGAAATGAAGTTTCGGAAAACATGGAGGAGGAGGCTGAGAATCAGCTGAAACGCGGAGCAGCAGT
GGAGGGGACACTGGAGGCTGAGCTACAGTTGAAAGCACTGCATGTTAAGAGGGGGCACAGCCTCCTCCCAAGGG
AAAGTGTTTTTGTATATAATGTATTTTTTCACTTTTGGAGGATTCTTTTTGTATAACTTCAATAAAGATTGTAAG
CAAAAAA

314/2682
FIGURE 292

MAMESTATAAADAADVVSADKIEDVPAPSTSADKVESLDVDSEAKLLGLGQKHLVMGDIPAAVNAFQEAASLLGK
KYGETANECGEAFFFYGKSILLELARMENGVLGNALEGVHVEEEEGEKTEDESLVENNDNIDEEAREELREQVYDA
MGEKEEAKKTEDKSLAKPETDKEQDSEMEKGGREDMDISKSAEEPQEKVDLTLDWLTETSEEAKGGAAPEGPNEA
EVTSGKPEQEVDPDAEEEEKSVSGTDVQEECREKGGQEKQGEVIVSIEEKPKEVSEEQPVVTLEKQGTAVEVEAESL
DPTVKPVDVGGDEPEEKVVTSENEAGKAVLEQLVGQEVPPAEESPEVQTEAAEASAVEAGSEVSEKPGQEAPVLP
KDGAVNGPSVVGDDQPIEPQTSIERLTETKDGSGLEEKVRACLVPSEETKLSVEESEAAAGDGVDTKVAQGATEK
SPEDKVQIAANEETQEREEQMKEGEETEGSEEDDKENDKTEEMPNDVLENKSLQENEEEEIGNLELAWDMLDLA
KIIIFKRQETKEAQLYAAQHLKLGEVSVSESENYVQAVEEFQSCNLQEQYLEAHDRLLAETHYQLGLAYGYNSQY
DEAVAQFSKSIEVIENRMAVLNEQVKEAGSSEYKKEIEELKELLPEIREKIEDAKESQSRSGNVAELALKATLVE
SSTSGFTPGGGGSSVSMIASRKPTDGASSSNCVTDISHLVRRKKRKEEESPRKDDAKKAKQEPEVNGGSGDAVPS
GNEVSENMEEEAENQLKRGAAVEGTLEAGATVESTAC

315/2682
FIGURE 293

AAGCGATGGCTGGGCCCGCTGGATCTCCAAGGTCTCTCGGCTGCTGGGGGCATTCCACAACCCAAAAACAGGTGA
CCAGAGGTTTTACTGGTGGTGTTCAGACAGTAACCTTTAATTCCAGGAGATGGTATTGGCCCAGAAATTCAGCTG
CAGTTATGAAGATTTTTGTATGCTGCCAAAGCACCTATTAGTGGGAGGAGCGGAACGCTACTGCCATTCAAGGAC
CTGGAGGAAAGTGGATGATCCCTTCAGAGGCTAAAGAGTCCATGGATAAGAACAAGATGGGCTTGAAAGGCCCTT
TGAAGACCCCAATAGCAGCCGGTCACCCATCTATGAATTTACTGCTGCGCAAAACATTTGACCTTTACGCGAATG
TCCGACCATGTGTCTCTATCGAAGGCTATAAAACCCCTTACACCGATGTAAATATTGTGACCATTTCGAGAGAACA
CAGAAGGAGAAATACAGTGGAAATGAGCATGTGATTGTTGATGGAGTCGTGCAGAGTATCAAGCTCATCACCGAGG
GGCGAGCAAGCGCATTGCTGAGTTTGCCCTTTGAGTATGCCCGGAACAACCACCGGAGCAACGTCACGGCGGTGC
ACAAAGCCCAACATCATGCGGATGTCAGATGGGCTTTTTCTACAAAAATGCAGGGAAGTTGCAGAAAGCTGTAAAG
ATATTAAATTTAATGAGATGTACCTTGATACAGTATGTTTGAATATGGTACAAGATCCTTCCCAATTTGATGTTT
TTGTTATGCCAAATTTGTATGGAGACATCCTTAGTGACTTGTGTGCAGGATTGATCGGAGGTCTCGGTGTGACAC
CAAGTGGCAACATTGGAGCCAATGGGGTTGCAATTTTGAAGTTCGGTTCATGGGACGGCTCCAGACATTGCAGGCA
AGGACATGGCGAATCCACAGCCCTCCTGCTCAGTGCCTGATGATGCTGCGCCACATGGGACTTTTTGACCATG
CTGCAAGAATTGAGGCTGCGTGTTTTGTCTACAATTAAGGACGGAAGAGCTTGACAAAAGATTTGGGAGGCAATG
CAAAATGCTCAGACTTCACAGAGGAAATCTGTGCGCGAGTAAAGATTTAGATTAAACACTTCTACAACCTGGCATT
TACATCAGTCACTCTAAATGGACACCACATGAACCTCTGTTTGAATACCTACGTATGTATGCATTGGTTTGCTT
GTTTCTTGACAGTACATTTTTAGATCTGGCCTTTTTCTTAAACAAATCTGTGCAAAAGATGCAGGTGGATGTCCTT
AGGTCTGTTTTTCAAAGAACTTTTTCCAAGTGCTTGTTTTATTTAAGTGTCTACCTGGTAAATGTTTTTTTTG
TAAACTCTGAGTGGACTGTATCATTGCTATTCTAAACCATTTTACACTTAAGTTAAATAGTTTCTCTTCAGCT
GTAAATAACAGGATACAGAATTAACAAGAGAAAATGTCTAACTTTTTAAGAAAAACCTTATTTCTTCGGTTTTT
GAAAAACATAATGGAAATAAACAGGATATTGACATAATAGCACAAAATGACACTCTTCTAAACTAAATGGGCA
CAAGAGAAATTTTCTGGGAAAGTTTACATCAAAAAGAGTGAATGTGGTATATTTCTAAATGATATGGAAATAGA
GACAGATTTGTCCTTTACAGAAATTACTGAGTGTGAATAAAAACCTTCAGATCCAAGAAATATATAATGAGAGATA
TAATTTTTGTTAATAAGACAAAGGTAATATATTGGATACAAAGACACAAATGTATTGTGTGTTCAATTATTTTGT
TGTCTTGAGATTTAATATTCTTTCCAAGAGCTTTAATGAAGCAGAGAGCTAGTACTTCATTTTCACTGGATACA
TTTTTCAGCATCATGAGTTGTACAGCCTCTGAGCCCCTGATCTGAAGCCAGAAGGGCTGAGTGTATTGTAACTT
ATTCTTGATGTTGCTGTCTGGGAATGGACCACACTACAGCAGGTAGTTCTGGGGGCGATACTGCCGAAAGGCC
GAACACATGTATTTGGCTGCAATTGAGGAACCTGGGATGCTATTAATTTTGTATTTTCAAGCACTGCCCTTCTC
CTATCCCAAAGCACCAATTACTGCCCTCTGCCTCAGCAGTACCAGTATAAGATGACATTCCAAAGACTGGAGGCA
ACTCAGCCTGAGTTAATTCACAAAATTATGCCATGCTGGGGCTTGAGCTTGAGCTTGGGCTTAGGCTTGGGCTCA
GCTTTTGACCCTCAGGCATCTCCTTTTCTTCTGCTTCTCCTTCTCCTTCTGCTGCAGCATGATTTTCTT
AATCTTCAGACACTCACTATTTTCATGAACAGTTACCTCTGTCCCCACAACCAAGACAACCTCATGGCCTCCTT
TGGCCTTGTGTAACATTGCAACCTGTGGCTTTGCAAAATGTACCCAGGTCACAAGGGGATTTTTTTTTTTTA
GCAATGATATCCCTGTCTGGGTCACTTTTTAAGCTGTGAACCGCCCCCAGACTTATAATCTTAAATGTAATTT
CCTTTGTTTAAAGCTGCTGCTTCTCTGTTTCATTGGATTGTGCCAGTTATCAGTGGCTCTTGGGTTCAAAGTAAT
AAA

316/2682
FIGURE 294

MAGPAWISKVSRLLGAFHNPKQVTRGFTGGVQTVTLIPGDGIGPEISAAVMKIFDAAKAPIQWEERNVTAIQGPG
GKWMIPSEAKESMDKNKMGLKGPLKTPIAAGHPSMNLLLRKTFDLYANVRPCVSIIEGYKTPYTDVNIVTIRENTE
GEYSGIEHVIVDGVVQSIKCLITEGASKRIAFAFEYARNNHRSNVTAVHKANIMRMSDGLFLQKCREVAESCKDI
KFNEMYLDIVCLNMVQDPSQFDVLVMPNLYGDILSDLCAGLIGGLGVTPSGNIGANGVAIFESVHGTAPEIAGKD
MANPTALLLSAVMMLRHMGLFDHAARIEAACFATIKDGKSLTKDLGGNAKCSDFTEEICRRVKDLD

317/2682
FIGURE 295

GC GCGCCTTCTCCAGTCCGCGGTGCCATGGCCCCCGCCGCTCTGTTCCGCGCTGCTGCTGCTCTTCGTAGGCGGAG
TCGCCGAGTCCGATCCGAGAGACTGAGGTCATCGACCCCCAGGACCTCCTAGAAGGCCGATACTTCTCCGGAGCCC
TACCAGACGATGAGGATGTAGTGGGGCCCCGGGCAGGAATCTGATGACTTTGAGCTGTCTGGCTCTGGAGATCTGG
ATGACTTGGAAGACTCCATGATCGGCCCTGAAGTTGTCCATCCCTTGGTGCCTCTAGATAACCATATCCCTGAGA
GGGCAGGGTCTGGGAGCCAAGTCCCCACCGAACCCAAGAACTAGAGGAGAATGAGGTTATCCCCAAGAGAATCT
CACCCGTTGAAGAGAGTGAGGATGTGTCCAACAAGGTGTCAATGTCCAGCACTGTGCAGGGCAGCAACATCTTTG
AGAGAACCGGAGGTCCTGGCAGCTCTGATTGTGGGTGGCATCGTGGGCATCCTCTTTGCCGCTCTCCTGATCCTAC
TGCTCATGTACCGTATGAAGAAGAAGGATGAAGGCAGCTATGACCTGGGCAAGAAACCCATCTACAAGAAAGCCC
CCACCAATGAGTTCTACGCGTGAAGCTTGCTTGTGGGCACTGGCTTGACTTTAGCGGGGAGGGAAGCCAGGGGA
TTTTGAAGGGTGGACATTAGGGTAGGGTGAGGTCAACCTAATACTGACTTGTGAGTATCTCCAGCTCTGATTACC
TTTGAAGTGTTCAGAAGAGACATTGTCTTCTACTGTTCTGCCAGGTTCTTCTTGAGCTTTGGGCCCTCAGTTGCC
TGGCAGAAAAATGGATTCAACTTGGCCTTTCTGAAGGCAAGACTGGGATTGGATCACTTCTTAACTTCCAGTTA
AGAATCTAGGTCCGCCCTCAAGCCCATACTGACCATGCCTCATCCAGAGCTCCTCTGAAGCCAGGGGGCTAACGG
ATGTTGTGTGGAGTCTGGCTGGAGGTCTCCCCAGTGGCCTTCTCCTTCTTTCACAGCCGGTCTCTCTGC
CAGGAAATGGGGGAAGGAAGTGAACACCTGCACCTTGAGATGTTTCTGTAAATGGGTACTTGTGATCACACTA
CGGGAATCTCTGTGGTATATACCTGGGGCCATTCTAGGCTCTTTCAAGTGACTTTTGGAAATCAACCTTTTTAT
TTGGGGGGGAGGATGGGGAAAAGAGCTGAGAGTTTATGCTGAAATGGATTTATAGAATATTTGTAAATCTATTTT
TAGTGTGTTGCTTTTTTTAACTGTTTCACTTCTTGTGTCAGAGTGATATCTCTGCCTGGGCAAGAGTGTGGAG
GTGCCGAGGTGTCTTCACTCTCTGCACATTTCCACAGCACCTGCTAAGTTTGTATTTAATGGTTTTTGTGTTTTG
TTTTTGTGTTTCTTGAAGATGAGAGAAGAGCCGAGAGATGATTTTATTAAATTTTTTTTTTTTTTTTTTTT
TACTATTTATAGCTTTAGATAGGGCCTCCCTTCCCTCTTCTTTCTTGTCTCTTTCATTAAACCCCTTCCCCA
GTTTTTTTTTTATACTTTAAACCCCGCTCCTCATGGCCTTGGCCCTTCTGAAGCTGCTTCTCTTATAAAATAG
CTTTTGCCGAAACATAGTTTTTTTTTAGCAGATCCCAAATATAATGAAGGGGATGGTGGGATATTTGTGCTGT
GTTCTTATAATATATTATTCTTCTCTGTTCTAGAAAAATAGATAAATATATTTTTTTCAGGAAATAGTGTG
GTGTTTCCAGTTTGATGTTGCTGGGTGGTTGAGTGAGTGAATTTTCATGTGGCTGGGTGGGTTTTTGCTTTTTT
TCTTGCCCTGTTCTGCTGCTTCTGATGGGGCTGGAATAGTTGAGGTGGATGGTTCTACCCCTTCTGCCTTCTG
TTTGGGACCCAGCTGGTGTTCTTTGGTTTGCTTTCTCAGGCTCTAGGGCTGTGCTATCCAATACAGTAACCACA
TGCGGCTGTTTTAAAGTTAAGCCAATAAAATCACATAAGATTAAAAATTCCTTCTCAGTTGCACTAACCCAGTT
TCTAGAGGCGTCACTGTATGTAGTTCATGGCTACTGTACTGACAGCGAGAGCATGTCCATCTGTTGGACAGCACT
ATTCTAGAGAACTAACTGGCTTAACGAGTCACAGCCTCAGCTGTGCTGGGACGACCCCTGTCTCCCTGGGTAGG
GGGGGGGAATGGGGGAGGGCTGATGAGGCCCCAGCTGGGGCCTGTTGTCTGGGACCCCTCCCTCTCCTGAGAGGG
GAGGCCTGGTGGCTTAGCCTGGGCAGGTGCTGTCTCCTCTGACCCAGTGGCTGCGGTGAGGGGAACCCCTC
CCTGCTGCACCACTGGCCATTAGCTCCCGTCACCACTGCAACCCAGGGTCCCAGCTGGCTGGGTGCTCTCTG
CCCCAGTGCCCTTCCCTTGGGCTGTGTTGGAGTGAGCACCTCCTCTGTAGGCACCTCTCACACTGTTGTCTGTT
ACTGATTTTTTTTGATAAAAAGATAATAAACCTGGTACTTTCTAAAAA

318/2682
FIGURE 296

MAPARLFALLLLFVGGVAESIRETEVIDPQDLLEGYFSGALPDDEDVVGPGQESDDFELSGSGDLDLED SMIG
PEVVHPLVPLDNHUPERAGSGSQVPTEPKKLEENEVIPKRISPVEESEDVSNKVSMSSTVQGSNIFERTEVLAAL
IVGGIVGILFAVFLILLMYRMKKKDEGSYDLGKKPIYKKAPTNEFYA

319/2682
FIGURE 297

CACTGCGCTTGCGCGGGTTGAGGGCGGTGGCTCAGTCTCCTGGAAAGGACCGTCCACCCCTCCGCGCTGGCGGTG
TGGACCGGAACTCAGCGGAGAAACGCGATTGAGAAATGGAAAAGAAAATGAAATAAATCAGCAGTTATGAGGCA
GAGCCTAAGAGAACTATGGCAACATCAGGTGACTGTCCCAGAAGTGAATCGCAGGGAGAAGAGCCTGCTGAGTGC
AGTGAGGCGGGTCTCCTGCAGGAGGGAGTACAGCCAGAGGAGTTTGTGGCCATCGCGGACTACGCTGCCACCGAT
GAGACCCAGCTCAGTTTTTTGAGAGGAGAAAAAATTCTTATCCTGAGACAAACCACTGCAGATTGGTGGTGGGGT
GAGCGTGCGGGCTGCTGTGGGTACATTCCGGCAAACCATGTGGGGAAGCACGTGGATGAGTACGACCCCGAGGAC
ACGTGGCAGGATGAAGAGTACTTCGGCAGCTATGGAACCTCTGAAACTCCACTTGGAGATGTTGGCAGACCAGCCA
CGAACAACTAAATACCACAGTGTCTCCTGCAGAATAAAGAATCCCTGACGGATAAAGTCATCCTGGACGTGGGC
TGTGGGACTGGGATCATCAGTCTCTTCTGTGCACACTATGCGCGGCCTAGAGCGGTGTACGCGGTGGAGGCCAGT
GAGATGGCACAGCACACGGGGCAGCTGGTCTGCAGAACGGCTTTGCTGACATCATCACCGTGTACCAGCAGAAG
GTGGAGGATGTGGTGCTGCCCGAGAAGGTGGACGTGTGGTGTCTGAGTGGATGGGGACCTGCCTGCTGTTTGAG
TTCATGATCGAGTCCATCCTGTATGCCCGGGATGCCTGGCTGAAGGAGGACGGGGTCATTTGGCCACCATGGCT
GCGTTGCACCTTGTGCCCTGCAGTGTGATAGGATTATCGTAGCCAAGGTGCTCTTCTGGGACAACCGGTACGAG
TTCAACCTCAGCGCTCTGAAATCTTTAGCAGTTAAGGAGTTTTTTTCAAAGCCCAAGTATAACCACATTTTGAAA
CCAGAAGACTGTCTCTCTGAACCGTGCACTATATTGCAGTTGGACATGAGAACCGTGCAAATTTCTGATCTAGAG
ACCCGTAGGGGCGAGCTGCGCTTCGACATCAGGAAGGCGGGGACCCCTGCACGGCTTCACGGCCTGGTTTAGCGTC
CACTTCCAGAGCCTGCAGGAGGGGCAGCCGCCGCGAGGTGCTCAGCACGGGGCCCTTCCACCCACACACACTGG
AAGCAGACGCTGTTTCATGATGGACGACCCAGTCCCTGTCCATACAGGAGACGTGGTCACGGGTTTCAGTTGTGTTG
CAGAGAAACCCAGTGTGGAGAAGGCACATGTCTGTGGCTCTGAGCTGGGCTGTCACTTCCAGACAAGACCCACA
TCTCAAAAAGTTGGAGAAAAAGTCTTCCCCATCTGGAGATGACAGTTGATGCTTTATTTGGAAAGCAGTGTGCAT
ATCTTGAGGGGTGATGAACACAAGCAAACCAAGTTGCACCTGGCTTCTGCACACTCCTGCGAAAGTCGGTGAACA
TTCACTCCACATTGACCCCTCCCTAGCCTGGCAGGTGACGTACGGGTCCTTCACAGACAAACACGCTTGGGCTCG
GCAGGAGCTGCCGTGGCCACCCCGCTGCCAGTGTCTGCCCTCTAGAAGTAGGCTGTGTTCCAGGTGTTTACC
CGTGGTGCCACAGTGCCGACCCGTGGCTGGGTGGGAGCTCCATGTTCTTAAGCTAGGTCTAGGTCTACACTCCT
AGGACGCACGCATATCAGCCCGTGTACCCTGTGACAGTGAAGTGTCCCCACCTCCTGTGTTAGTGGTGCCCTTACT
GCCGTGCTCATCCACTCGTGTGGGACGTAGGATTGCACAGGGCTGTGCCAGTGGCGTGTAGGGAACACTGCCCT
GGCTCAGCGTGCGAGCTAAGGTGGCGATGTATGCGATGGGACTCTGCATGGGATAGTACAGTTGTGTAGACGTCT
TCCAAATAAATTATGTGTTGGTGCCATCGCACATGCTCAATAAATATTTTAAATGAGTGAAAAA

320/2682
FIGURE 298

MATSGDCPRSESQGEEPAECSEAGLLQEGVQPEEFVAIADYAATDETQLSFLRGEKILILRQTTADWWGERAGC
CGYIPANHVKGKHVDEYDPEDTWQDEEYFGSYGTLKLHLEMLADQPRTTKYHSVILQNKESLTDKVILDVGC GTGI
ISLFCAYARPRAVYAVEASEMAQHTGQLVLQNGFADIITVYQQKVEDVVLPEKVDVLVSEWMGTCLLFEFMIES
ILYARDAWLKEDGVIWPTMAALHLVPCSADRIIVAKVLFWDNAYEFNLSALKSLAVKEFFSKPKYNHILKPEDCL
SEPCTILQLDMRTVQISDLETLRGELRFDIRKAGTLHGFTAWFSVHFQSLQEGQPPQVLSTGPFHPTTHWKQTLF
MMDDPVPVHTGDVVTGSVVLQRNPVWRRHMSVALSWAVTSRQDPTSQKVGEKVFP IWR

321/2682
FIGURE 299

AATTCCGCGGAATCATCGGAATCCTTCACCATGGCATCCAGCCCGGCCAGCGTCGGCGAGGCAATGATCCTCTC
ACCTCCAGCCCTGGCCGAAGCTCCCGGCGTACTGATGCCCTCACCTCCAGCCCTGGCCGTGACCTTCCACCATT
GAGGATGAGTCCGAGGGGCTCCTAGGCACAGAGGGGCCCTGGAGGAAGAAGAGGATGGAGAGGAGCTCATTGGA
GATGGCATGGAAAGGACTACCGCGCCATCCCAGAGCTGGACGCCATGAGGCCGAGGGACTGGCTCTGGATGAT
GAGGACGTAGAGGAGCTGACGGCCAGTCAAGGGAGGCAGCAGACGGGCCATGCGGCACGGTGACCGGGAGCTGG
CCGGGGCTGGGCGCATGCGCCGTGGGCTCCTGTATGACAGCGATGAGGAGGACGAGGAGCGCCCTGCCCGCAAGC
GCCGCCAGTGGAGCCGGCACGGAGGACGGCGAGGAGGACGAGCAGATGATTGAGAGCATCGAGAACCTGGAGGAT
CTCAAAGGCCACTCTGTGCGCGAGTGGGTGAGCATGGCGGGCCCCGGCTGGAGATCCACCACCGCTTCAAGAAC
TTCTGCGCACTCACGTGACAGCCACGGCCACAACGTCTTCAAGGAGCGCATCAGCGACATGTGCAAAGAGAAC
CGTGAGAGCCTGGTGGTGAATATGAGGACTTGGCAGCCAGGGAGCAGTGTGCTGACCTTCTGCTGAGGCA
CCGGCGGAGCTGCTGCAGATCTTTGATGAGGCTGCCCTGGAGGTGGTACTGGCCATGTACCCCAAGTACGACCGC
ATCACCACCATCATGTCCGCATCTCCACCTGCCTCTGGTGGAGGAGCTGCGCTCGCTGAGGCGAGCTGCAT
CTGAACCAGCTGATCCGCACCACTGGGGTGGTGACCAGCTGCACTGGCGTCTGCCCGAGCTCAGCATGGTCAAG
TACAACGTCAACAAGTGCAATTTCTGCTCCTGGGTCTTTCTGCCAGTCCAGAACAGGAGGTGAAACCAGGCTCC
TGCTCTGAGTGCCAGTCCGCGCGGCCCTTTGAGGTCAACATGGAGGAGACCATCTATCAGAACTACCAGCGTATC
CGAATCCAGGAGAGTCCAGGCAAAGTGGCGGCTCGCGGCTGCCCGCTCCAAGGACGCCATTCTCTCGCAGAT
CTGGTGGACAGCTGCAACGCAGGAGACGAGATAGAGTGAAGTGGCATCTATCACAACAATATGATGGCTCCCTC
AACACTGCCAATGGCTTCCCTGTCTTTGCCACTGTCTCCTAGCCAACCACGTGGCCAAAGAGACAACAAGGTT
GCTGTAGGGGAATGACCGATGAAGATGTGAAGATGATCACTAGCCTCTCCAAGGATCAGCAGATCGGAGAGAAG
ATCTTTGCCAGCATTGCTCCTTCCATCTATGGTCAAGAGACATCAAGAGAGGCCCTGCTCTGGCCCTGTTTCGGA
GGGGAGCCCAAAACCCAGGTGGCAAGCACAAGGTACGTGGTGATATCAACGTGCTCTTGTGCGGAGACCCTGGC
ACAGCGAAGTCGAGTTTCTCAAGTATATTGAGAAAGTTCAGCCGAGCCATCTTACCAGTGGCCAGGGGGCG
TCGGCTGTGGCGGTACGGCGTATGTCCAGCGGCACCCTGTCAGCAGGGAGTGGACCTTGGAGGCTGGGGCCCTG
GTTCTGGCTGACCGAGGAGTGTGTCTCATTGATGAATTTGACAAGATGAATGACCAGGACAGAACCAGCATCCAT
GAGGCCATGGAGCAACAGAGCATCTCCATCTCGAAGGTGGCATCGTCACCTCCCTGCAGGCTCGCTGCACGGTC
ATTGCTGCCGCCAACCCCATAGGAGGGCGCTACGACCCCTCGCTGACTTTCTCTGAGAAGCTGGACCTCACAGAG
CCCATCATCTCACGCTTTGACATCTGTGTGGTGGGAGACCCGTGGACCCAGTCCAGGACGAGATGCTGGCC
CGCTTCGTGGTGGGCGAGCCAGTCAGACACCACCCAGCAACAAGGAGGAGGAGGGGCTGGCCAATGGCAGCGCT
GCTGAGCCCGCCATGCCAACACGTATGGCGTGGAGCCCTGCCCGAGGAGTCTGAAGAAGTACATCATCTAC
GCCAAGGAGAGGGTCCACCCGAAGCTCAACCAGATGGACCAGGACAAGGTGGCCAAGATGTACAGTGACCTGAGG
AAAGAATCTATGGCGACAGGCAGCATCCCCATTACGGTGGCGCACATCGAGTCCATGAGTCATGGCGGAGGCCCA
CGCGCGCATCCATCTGCGGGACTATGTGATCGAAGACGACGTCAACATGGCCATCCGCGTGTGCTGGAGAGCTT
CATAGACACACAGAAGTTCAGCGTCATCGCAGCATGCGCAAGACTTTTGCCCGCTACCTTTTATTCGGCGTGAC
AACAATGAGCTGTTGCTCTTCACTGAAGCAGTTAGTGGCAGAGCAGGTGACATATCAGCGCAACCGCTTTGGG
GCCCAGCAGGACACTATTGAGGTCCCTGAGAAGGACTTGGTGGATAAGGCTCGTCAGATCAACATCCACAACCTC
TCTGCATTTTATGACAGTGAGCTCTTCAGGATGAACAAGTTCAGCCACGACCTGAAAAGGAAAATGATCCTGCAG
CAGTTCTGAGGCCCTATGCCATCCATAAGGATTCCTTGGGATTCTGGTTTGGGGTGGTCAGTGCCCTCTGTGCTT
TATGGACACAAAACAGAGCACTTGATGAACCTGGGGTACTAGGGTCAGGGCTTATAGCAGGATGCTGGCTGCA
CCTGGCATGACTGTTTGTCTTCCAAGCCTGCTTGTGCTTCTCACCTTTGGGTGGGATGCCTTGCCAGTGTGTC
TTACTTGGTTGCTGAACATCTTGCCACCTCCGAGTGCTTTGTCTCCACTCAGTACCTTGGATCAGAGCTGCTGAG
TTCAGGATGCCTGCGTGTGGTTAGGTGTTAGCCTTCTTACATGGATGTCAGGAGAGCTGCTGCCCTCTTGGCGT
GAGTTGCGTATTCAGGCTGCTTTGCTCGCTTTGGCCAGAGAGCTGGTTGAAGATGTTTGAATCGTTTTAGTC
TCCTGCAGGTTTCTGTGCCCTGTGGTGGAAAGAGGCAGCAGAGTCCAGCGCAGCGTTCTGGGCTCCTCAGTCGC
AGGGGTGGGATGTGAGTCATCGGATTATCCACTCGCCACAGTTATCAGCTGCCATTGCTCCCTGTCTGTTCCC
CACTCTCTTATTGTGCATTGCGTTTGGTTTCTGTAGTTTTAATTTTTAATAAAGTTGAATAAAATATAAAAAA
AAAA

322/2682
FIGURE 300

MASSPAQRRRGNDPLTSSPGRSSRRTDALTSSPGRDLPPFEDESEGLLGTEGPLEEEEDGEELIGDGMERDYRAI
PELDAYEAEGALDDEDVEELTASRREAADGPCGTVTGSWPGLGACAVGSCMTAMRRTRSALPASAASGAGTEDG
EEDEQMIESIENLEDLKGHSVREWVSMAGPRLEIHHRFKNFLRTHVD SHGHNVFKERISDMCKENRESLVVNYED
LAAREHVLAYFLPEAPAELLQIFDEAALEVVLAMYPKYDRITNHIHVRI SHLPLVEELRSLRQLHLNQLIRTSGV
VTSTGVLPLQLSMVKYCNKCNFVLGPFCQSQNQEVKPGSCPECQSAGPFEVNMEETIYQNYQRIRIQESPGKVA
ARRLPRSKDAILLADLVDSNAGDEIELTGIYHNNYDGS LNTANGFPVFATVILANHVAKKDNKVAVGELTDEDV
KMITSLSKDQQIGEKIFASIAPSIYGHEDIKRGPALALFGGEPKNPGGKHKVVRGDINVLLCGDPGTAKSQFLKYI
EKVSSRAIFTTGQASAVAVTAYVQRHPVSREWLEAGALVLADRGVCLIDEFDKMNDQDRTSIEHEAMEQQSISI
SKAGIVTSLQARCTVIAAANPIGGRYDPSLTFSENVDLTEPIISRFDILCVVRDTPVQDEMLARFVVGSHVRH
HPSNKEEEGLANGSAAEPAMPNTYGVPELPQEV LKYYIIYAKERVHPKLNQMDQDKVAKMYSDLRKESMATGSIP
ITVRHIESMSHGGGPRAHP SAGLCDRRRRQHGHPRDAGELHRHTEVQRHRSMRKTFARYLSFRDRDNNELLF ILK
QLVAEQVTYQRNRF GAQODTIEVPEKDLVDKARQINIHNL SAFYDSELF RMNKF SHDLKRKMILQQF

323/2682
FIGURE 301

GAGCTGCGAAAGGGCGGGAAAGGCAGTTGGAGAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAG
GCGGCGGCGGCCTCGGCTGAAGAAAGAAGGTGGGAGCGGAGAGCGCAGGCGTGAAATCTTCCCAAGGCTGCAGAC
ACCGACGGATTTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAGCCATGAGCGGGTTTAATTTTGG
AGGCACTGGGGCCCCCTACAGGCGGGTTTACGTTTGGCACTGCAAAGACGGCAACAACCACACCTGCTACAGGGTT
TTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTCCAACCAGCCACAAGTACCCCTTCCAC
CGGCCTGTCTCACTTGGCACCAGACTCCGGCCACACAGACGACAGGCTTCACTTTTGAACAGCGACTCTTGC
TTCGGGGGGAAGTGGATTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGAGCAACACAGCTGCCACCCACG
CATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCATATCGAGCACCCTACCTCCAG
CCAGGGCAGCAGCACCACCGGCTTTGTGTTTGGCCCTCCACCACCTCTGTGGCTCCAGCTACCACATCTGGAGG
CTTCTCAITCACTGGTGAAGCAGGCCCCAACCTCCGGTTTCAACATTGGCTCAGCAGGGAATTAGCCACAGCC
CAGGCACCTGCCACGTTGCCCTTCACTCCGGCCAGCCAGCAGCCACCACAGCAGGTGCCACACAGCCAGCTGC
TCCACACCCACAGCCACCATCACCAGTACTGGGCCAGCCTCTTTGCGTCAATAGCAACTGCTCCAACCTCATC
TGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCACTGCTGGGACACAGGGCTTCAG
CTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTGCCACCGCCACCGCCACCACAC
CACCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAAACCACTGGCGCCAGCCGGGATCCCCAGCAATACAGC
AGCTGCCGTGACCGCTCCACCTGGCCCTGGCGCAGCTGCAGGGGCGGCTGCCAGCTCCGCCATGACCTACGCGCA
GCTGGAGAGCCTGATCAACAAATGGAGCCTGGAGCTAGAGGACCAGGAGCGGCACTTCTCCAGCAGGCCACCCA
GGTCAACGCCTGGGACCGCAGCTGATCGAGAATGGAGAAAAGATCACCAGCCTGCACCGCGAGGTGGAGAAGGT
GAAGCTGGACCAGAAGAGGCTGGACCAGGAGCTCGACTTCATCCTGTCCCAGCAGAAGGAGCTGGAAGACCTGCT
GAGCCCACTGGAGGAGTTGGTCAAGGAGCAGAGCGGGACCATCTACCTGCAGCACGCGGATGAGGAGCGTGAGAA
AACCTACAAGCTGGCTGAGAACATCGACGCACAGCTCAAGCGCATGGCCAGGATCTCAAGGACATCATCGAGCA
CCTGAACACGTCCGGGGCCCCCGCCGACACCAGTGACCCACTGCAGCAGATCTGCAAGATCCTCAATGCGCACAT
GGACTCACTGCAGTGGATCGACCAGAACTCGGCCCTGCTGCAGAGGAAGGTGGAGGAGGTACCAAGGTGTGCGA
GGGCGGCGCAAGGAGCAGGAGCGCAGCTTCCGGATCACCTTTGACTGAGCGACAGCAGCCCTGGGGCCCCGAGG
TCCCTAGGGAGTTTATGAGGGGAATGCGCCCTGTTGTCTGTAGTTTGGGGTTGTGGCAAGATACTTGTGTTTGT
TTTCTTTCTTTACATGACTGCCCTTGACATGATCGCTGTGTGCTTTGCGTTTTTCCATTTAGGAGGGTATTCTG
GGCCTTCTGCCCAGGCAGCAGCCTCATGGGTGTGGCTTCTGTGGCTTTTATTGAGTATCTTTGGCCCCTTTTCA
CCTACTGCGACCACCCACCTCATCTGGCTCAGCCTGGTGATGGAGAAGTGCTGATGGTCTTGGTCCCAGCCAGG
GTCGTGGGGGCGAGCCACTCTCTCAAAGCATAGTCATGGGTGTCATGAAAAATACCAAATGTAAGAGAACCTCC
AAGTCAGGGCGCAGTGGCTCACCCCTGTAATCTCAGCACTTTGGGTGGCCAAGGCGGGCAGATGACTTGAGGTCA
GGAGTTCGAGACCAGCCTGGCCAACATGGTGAACCCCGTCTCTACTAAAAATACAAAAATTAGTCAGGTGTGGT
GGACGCTGTGATCTCAATCTCAGCTACTCGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGTGTTGCA
GTGAACCAAGATCACACCACTGCACTCCAGCCTAGGCAACAGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAG
AACTCCCAGGAGACAGCAGCCTAGTTTTTCGAGTGTGAGCTTGTGCTTGTGAAGCTAACCATGCTAACCACCAA
GGCAAAGCAGCAGAGTGTGAATAGAACAGAGCGGGATCAAGAAATTCACAGAAGACAGGTGAGTGGGGCCTG
CACACACAGGGTGTGAGGAACACAGATGGGCGCCGAGAGGCTGCCTTTTGCCTGGCCAGGCTCACCCACAC
CTTGGGCTCACCTCTCTAGGAAGCCTTCCAGCTACCCGAAGCTCAGGTGGCCTTCTTGCAGGTCCCCGTAGC
ACCCTGAGCCTGTACCTTGGGTGGCACTTGTTATGCTATCCTGTGCTAGCCGTTTGTGCTCGTCTCGCTGTTAG
ATTGTGAGTTCCCATGGGCGAGAGCCCACTGTGCTTCCCCGTTGTCCCCAGCCCGGTCCCTGTACATTTGTTA
AATGAAAGAACAAATGAAGCCAGTGTAACGTGAGTCCACAGAAATAGCCACAGCTTCCAGTGGTGGCCGTAGACT
TGGCTCGGAACCTTAGTGGCACCAGAGTAAGTCTAGTCAAGTACAGTAAATCCACTGTGTGTGAAGGCAGAAGC
TAGCGGTTGTATCCCAAGCATCTTTGTATTTGTCTTTATACTTTGCTGAATTTCTTGAAATACCTATTACTGTA
TGTGGCTTTTCTAAATAAATGTATTGTGAACTAAAAAAAAAAAAAAAAA

324/2682

FIGURE 302

MSGFNFGGTGAPTGGFTFGTAKTATTTTPATGFSFSTSGTGGFNFGAPFQPATSTPSTGLFSLATQTPATQTTGFT
FGTATLASGGTGFSGLGIGASKLNLNNTAATPAMANPSGFLGSSNLTNAISSVTSSQGTAPTGFVFGPSTTSVA
PATTSGGFSFTGGSTAQPSGFNIGSAGNSAQPTAPATLPFTPATPAATTAGATQPAAPTPTATITSTGPSLFAI
ATAPTSSATTGLSLCTPVTTAGAPTAGTQGFSLKAPGAASGTSTTTSTAATATATTTTSSSTTGFAIPLKPLAPA
GIPSNTAAAVTAPPGPGAAAGAAASSAMTYAQLESINKWSLELEDQERHFLQQATQVNAWDRTLIENGEKITSL
HREVEKVKLDQKRLDQELDFILSQKELEDLLSPLEELVKEQSGTIYLQHADEEREKTYKLAENIDAQLKRMAQD
LKDIIEHLNTSGAPADTSDPLQQICKILNAHMDSLQWIDQNSALLQRKVEEVTKVCEGRRKEQERSFRITFD

325/2682
FIGURE 303

CGCAGGGACCGTGCTCCGCCGCTCTCCGCCGCATCTTCCACCCTCGCCGCCGCCGCGAGCTCCCCGCGCTCGTGCCA
CCGCCGCCGCGCTCCACCCTCAGCGCCACCGCC**ATC**CGGGAGATCGTGACCTGCAGGCCGGCCAGTGCGGCAACC
AGATCGGGGCCAAGTTTTGGGAGGTTATCAGTGACGAACATGGCATCGACCCACAGGCACATACCATGGGGACA
GTGACCTGCAACTGGAGAGGATCAACGTGTACTACAACGAGGCCACAGGAGGAAATTATGTCCCCAGAGCGGTGC
TGGTGGACCTGGAACCCGGCACCATGGACTCTGTCCGTTCTGGCCCCCTTCGGTCAGATCTTTCGGCCGGACAAC
TCGTGTTTTGGCCAATCCGGAGCCGGCAACAACCTGGGCAAAGGGGCACTACACGGAGGGCGCAGAGCTGGTGGACG
CTGTCTTGGACGTAGTCCGGAAGGAGGCCGAGAGCTGCGACTGCCCTTCAGGGCTTCCAGCTGACCCACTCGCTGG
GGGGTGGCACGGGGTCCGGAATGGGCACGCTGCTCATCAGTAAGATCCGCGAGGAGTCCCAGACCGCATCATGA
ACACCTTTCAGCGTGGTGCCCTCGCCCAAAGTGTGAGACACGGTGGTGGAGCCCTACAACGCCACGCTGTCTGTGC
ACCAGCTGGTGGAGAATACGGATGAGACCTACTGCATCGACAACGAGGCACTCTACGACATCTGTTTCCGCACCC
TCAAGCTGACCACCCCCACCTACGGGGACCTCAACCACCTGGTGTCCGCCACCATGAGCGGGGTACCACTGCC
TGCGCTTCCCCGGGCCAGCTGAACGCCGACCTGCGCAAGCTGGCCGTCACATGGTTCCCTTTCCTCGCTGCACT
TCTTCATGCCCGGCTTCGCACCCCTGACCAGCCGGGGCAGCCAGCAGTACCGGGCCCTGACGGTGCCCGAGCTCA
CCCAGCAGATGTTTCGATGCCAAGAACATGATGGCGGCGTGCACCCGCGCCACGGCCGCTACCTGACCGTGGCCG
CCGTGTTCCGGGGCCGCATGTCCATGAAGGAGGTGGACGAGCAGATGCTGAGCGTGCAGAGCAAGAACAGCAGCT
ACTTCGTGGAGTGGATCCCCAACACGTGAAGACGGCCGTGTGCGACATCCCGCCCCGCGGCCTGAAGATGGCCG
CGACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCC
GGCGCAAGGCCCTTCTTGCACTGGTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACA
TGAATGACCTGGTATCTGAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAGGGCGAGTTCGAGGAGGAGGCGG
AGGAGGAGGTGGCC**TAG**GCTGCTCCCATCGCTTCCACCTGTCCCTCGAGGCTTCTGACCTTTGATCCGCTAGG
CCCCCATCTCTGAACCCTAGAGCCCCGCTTTCCTTCAAGGCTGACTCCCCGCTGACCCTAACAATACCTTTGG
AGCTCGCTTTACCTCTGGCTACTTCATCTCCGACCCTGGCTCCCCTTTGAGCCCTAATTTATCTTTAACCCCTT
GAGCTCTTCCAACCTTGACATTCCAGGAGGAGCCCCGCTTCACCCCTTCTGACTCTGGAAACCGCACCTTTAAC
TTTGACAGACCTTCCTTACCCCTGACTTCTGCTTACCTTTGACCTCTGCCCCCATGAATCCCATTTTACCTCT
AGACCTATAAGTTCTGGTTTATGTTTGACCCCTCCCTCTGAGCTGCACTTCACCGCTGACCTTGCTCACCTTTA
ACCCCCACCTGAGCCCCAGCTCCTACCTCTGACCCCAACTTCTCTTTGATCTCTGAATCCCTCTGACTCCAAC
TTCTCTTACCCCTCTATGAGTCCCATTTTACTTCTACACCTGCAAGTCTGGTTTATATTGGACCCCTCCCTCC
GAGCTGCAGTTACCTTTGACCTTGCCCTACCTTTACCCCCACCCCCACAGCGTCAGCTCCTACCTCTGACC
CCAGCTTCTCTGATTCCACAGGCCCCATGCATCTCCCTGCCTCACTCCCTCAGCCCTGCCGACCTTAGC
TTATCTGGGAGAGAAACAAGGCCTGGTGCCTGTGAGGAAGAGAGGTACCCCTACCTCCCTCCCCGCTTCCCTG
CCTCACCTCAATAAATAAATTAATTGTTGTCATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

326/2682
FIGURE 304

MREIVHLQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLERINVYYNEATGGNYVPRAVLVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDAVL DVVRKEAESCDCLQGFQLTHSLGGGTGSGMGT
LISKIREEFDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPGLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDAKNMM
AACDPRHGRYLTVA AVFRGRMSMKEVDEQMLSVQSKNSSYFVEWIPNNVKTA VCDIPPRGLKMAATFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGE GMDMEFTEAESNMNDLVSEYQQYQDATAEEGEFEEEEEEVA

327/2682
FIGURE 305

CGGCCGCTCCTCAAGCCGGCACCTGAGCGGCGGAGACGGCTGTAGCACAGGATCTGCATCTCCAATGGATACT
GAGGGGTTTGGTGAGCTCCTTCAGCAAGCTGAACAGCTTGCTGCTGAGACTGAGGGCATCTCAGAGCTTCCCCAT
GTGGAACGGAACCTTACAGGAGATCCAGCAGGCGGGAGAGCGCCTGCGTTCCCGTACCCCTAACACGCACGTCCCAG
GAGACGGCAGATGTCAAGGCGTCAGTTCTCCTCGGGTCTCGGGGACTTGACATATCCACATCTCCCAGCGATTG
GAGAGTCTGAGTGACGCCACCACCTTTGAGCCTCTTGAGCCTGTGAAGGACACTGACATTGAGGGCTTCTGAAG
AATGAGAAGGACAATGCCCTGCTGTCTGCCATCGAAGAGTCCCGGAAGAGGACCTTCGGCATGGCTGAGGAGTAC
CATCGGGAGTCAATGTTGGTTGAGTGGGAGCAAGTGAAACAGCGAATTCTGCACACACTGCTGGCATCAGGAGAA
GACGCCCTTGACTTTACTCAAGAAAGCGAGCCAAGCTACATCAGTGATGTGGGACCCCTGGTCAAGCTCTCTG
GATAACATCGAGATGGCCTATGCGCGGCAAATTTATATCTATAATGAGAAAATTGTAAATGGACACCTGCAGCCT
AACCTGGTGGACCTTTGTGCTTCCGTGCGCAGAGCTGGATGATAAGAGCATTTCGCACATGTGGACCATGGTAAAA
CAAATGACAGACGTGTTGTTGACACCGGCAACGGATGCCCTGAAGAACCGCAGCAGCGTGGAAGTGCAGTGGAG
TTTGTGAGGCAGGCCTTGGCGTACCTTGAGCAGAGTTATAAGAATTACACCCTTGAGCTGTCTTTGGAAATTTG
CATCAGGCCCAGCTGGGCGGGGTGCCTGGGACTTACCAATTGGTTCGAAGTTTCTGAAACATTAACTGCCAGCT
CCCTTGCTGGACTACAGGATGGAGAGGTGGAAGGCCATCCTGTGTGGGCGCTAATTTACTACTGCATGCGCTGT
GGAGACCTGCTTGCCGCTTACAGGTAGTTAATCGAGCCCAGCACCGCTGGGAGAGTTTAAACCTGGTTCCAG
GAGTACATGAACAGCAAGGACAGAAGATTGTCCCCAGCTACGGAACAAGCTCCGGCTGCATTACCGTAGGGCC
CTCAGGAACAATACAGATCCCTACAAGCGGGCGGTGTACTGTATCATTGGCAGATGTGACGTACCGACAACAG
AGTGAAGTGGCGGACAAAAGTGGAGTTACCTGTGGCTGAAGTTGAACCAAGTGTGTTTTGACGACGATGGCACC
AGCTCCCCACAAGACAGGCTCAGTCTCTCACAGTTCAGAAAGCAGTTGTGGAAGACTATGGCGAGTCCCCTTT
ACGGTGAACCAGCAACCTTCTCTACTTCCAAGTCTGTTCCTGACAGCGCAGTTTGAAGCAGCAGTTGCCTTT
CTTTTCCGATGGAGCGGCTGCGCTGCCATGCTGTCCATGTAGCACTGGTGCTGTTTGAAGCTGCTTTTA
AAGTCTCTGGACAGAGTGCTCAGCTCCTCAGCCACGAGCCTGGTGACCCTCCTTGCTTGCGGCGGCTGAACCTC
GTGCGGCTCCTCATGTGTACACCCGGAAGTTTGAGTCCACGGACCCAAGGGAGGCCCTCCAGTACTTCTATTTC
CTCAGGGATGAGAAAGATAGTCAAGGAGAAAACATGTTTCTGCGCTGTGTGAGTGAGCTTGTGATTGAAAGCCGA
GAGTTCGATATGATTCTTGGGAACTAGAGAATGACGGAAGTAGAAAGCCTGGAGTCATAGATAAGTTTACTAGT
GACACAAAGCCTATTATCAACAAAGTTGCTTCTGTGGCAGAAAATAAAGGACTGTTTGAAGAGGCAGCAAGCTG
TATGACCTTGCCAAGAATGCTGACAAGGTACTGGAGCTGATGAACAAAGTCTGAGCCCTGTCGTCCCCCAGATC
AGTGCCCCGCAATCCAACAAGGAGAGGCTGAAGAACATGGCACTCTCCATTGCCGAACGGTATAGGGCTCAAGGA
ATAAGCGCAAATAAATTTGTGGACTCCAGTTCTATCTCTTTTGGACTTGATCACCTTTTTTGACGAGTATCAT
AGTGGTCATATTGATAGAGCTTTTGATATCATTGAGCGCTTGAAGCTGGTGCCCTGAATCAGGAAAGTGTGGAA
GAGAGAGTGGCTGCTTTCAGAAATTTAGTGATGAATCAGGCACAACCTCTCAGAAGTGCTTCTTGCCACCATG
AACATCTTGTTACACAGTTTAAGAGGCTCAAGGGGACAAGTCCATCCTCGTCATCCAGGCCCCAGCGAGTCATC
GAGGACCGCGACTCTCAACTCCGAAGTCAAGCCGCACTCTGATTACCTTTGCTGGAATGATACEATACCGAAGC
TCTGGGGACACCAATGCGAGGCTGGTGCAGATGGAGGTCTCATGAATTAAGTGCCATGCTTTGTGGGAGTCTGG
GTCGGCACACTGTGAGTACATCAGGCACATGGGCCACTAGGCTGGGGTTTCTGGTTTTGTTCTGTTGTGTTTT
GTTTTGGTTTCTGTATTATGTATTTTTGTCAACGCCAATAAATTTCTTTGATTGT

328/2682
FIGURE 306

MDTEGFGEILLQQAELAAETEGISELPHVERNLOEIQQAGERLRSRTLRTSQTADV KASVLLGSRGLDISHIS
QRLESLSAATTFEPLEPVKDTDIQGFLKNEKDNALLSAIEESRKRTFGMAEYHRESMLVEWEQVKQRILHTLLA
SGEDALDFTQSEPSYISDVGPPGRSSLDNIEMAYARQIYIYNEKIVNGHLQPNLVDLCASVAELDDKSISDMWT
MVKQMTDVLLTPATDALKNRSSVEVRMEFVRQALAYLEQSYKNYTLVTVFGNLHQAQLGGVPGTYQLVRSFLNIK
LPAPLPGLQDGEVEGHPVWALIYYCMRCGDLLAASQVVNRAQHQLGEFKTWFOEYMNSKDRRLSPATENKLRRLHY
RRALRNNTDPYKRAVYCIIGRCDVTDNQSEVADKTEDYLWLKLNQVCFDDGTSSPDRLTLSQFQKQLLEDYGE
SHFTVNQQPFYFQVLFLTAQFEAAVAFLEFRMERLRCHAVHVALVLFELKLLKSSGQSAQLLSHEPGDPPCLRR
LNFVRLMLYTRKFESTDPREALQYFYFLRDEKDSQGENMFLRCVSELVIESREFDMILGKLENDGSRKPGVIDK
FTSDTKPIINKVASVAENKGLFEEAAKLYDLAKNADKVLELMNKLLSPVVPQISAPQSNKERLKNMALSLAERYR
AQGISANKFVDSTFYLLLDLITFFDEYHSGHIDRAFDIERLKLVLNQESVEERVAEFRNFSDEIRHNLSEVLL
ATMNILFTQFKRLKGTSPSSSRPQRVIEDRDSQLRSQARTLITFAGMIPYRTSGDTNARLVQMEVLMN

329/2682
FIGURE 307

CCCCAGCGAGGCTCCGGGAGCCCT¹GCCTGCGGGGCTCCGGGACTCGAGCCGGCCTCCGCCCCCGGACGCACA
GCCAGCGTGGTCCCCGCGTGCAACGCGAGCGCCGGGGAGTGGCTCCTGCTTTGCCCTCGTGGGGGCCGAGCCAA
GACCAGTCTGCAAACTCCATCCCGCCGGCTGGAAGAAGTCGCGGAGCCGGCACCAAAACCGCAGCGTCTTCCGCG
GCGGATCCCGGGACTTAAAAAGCCGGGGCCACCCGGCCAGGACGGGATGCGGGTGGTCCGGTGCCTCTGCC
ATGAGCGGCGCCTCGCAGCCCCGCGGCCCGGCCCTGCTCTTCCAGCCACCCGAGGCGTCCCGGCCAAACGCCTG
CTGGACGCCGACGACGCGGCGCTGTGGCGGCCAAGTGCCCGCGCCTCTCCGAGTGCTCCAGCCCCCGGACTAC
CTCAGCCCCCGGCTCGCCCTGCAGCCCGCAGCCCCCGCTGCCGCTCCGGGGGCCGGCGGAGGCTCCGGGAGC
GCGCCGGGGGCCAGCCGCATCGCCGACTACCTGCTGCTGCCCTAGCCGAGCGCGAGCATGTGTCCCGGGCGCTG
TGATCCACACTGGACGCGAGCTGCGCTGCAAGGTGTTTCCATTAAACACTACCAGGACAAAATCAGGCCTTAC
ATCCAGCTGCCATCGCACAGCAACATTACTGGCATTGTGGAAGTGATCCTTGGGGAAACCAAGGCCTATGTCTTC
TTTGAGAAGGACTTTGGGGACATGCACTCCTATGTGCGAAGCCGGAAGAGGCTGCGGGAAGAGGAAGCCGCCGG
CTCTTCAAGCAGATTGTCTCCGCCGTCGCCCCTGCCACCAGTCAGCCATCGTGCTGGGGGACCTGAAGCTTAGG
AAGTTTCGTCTTCTCCACGGAGGAGAGAACCAGCTTAGACTAGAAAGTCTAGAAGACACACATAATGAAGGGG
GAAGATGATGCTTTGTGACACAAACATGGCTGCCAGCCTACGTGAGCCCTGAGATCCTCAACACCACTGGGACC
TACTCCGGAAGGCTGCGGACGTTTGGAGCCTGGGGGTGATGCTCTACACCCTTCTGGTTGGACGATACCCCTTC
CATGACTCAGACCCAGTGCCCTTTTCTCCAAAATTCGGCGTGACAGTTCTGCATTCTGAGCACATTTCCCCC
AAAGCCAGGTGCCTCATTGCGAGCCTCTTGAGACGGGAGCCCTCCGAGAGACTCACTGCCCCGAGATCCTACTG
CACCCCTG²TTTGTAGTCCGTCTTGGAAACCGGGTACATCGACTCAGAAATAGGAACTTCAGACCAGATTGTTCCA
GAGTACCAGGAGGACAGTGACATTAGTTCCTTCTTCTGCT³TAATCCCCAAAACCTCAGAAACCTCATAATTCTTAA
CACCTGGCATTTCATTCTTAAAGATGGACAGGCCCTTGGCATGGTACCAACCAGATAATGACTGCATCAGGAT
GAAAGCTGCTGAACTCGGCATGGCGCCTCCTCTTCTGTTGGGATGAGTGACTTTATTGATTGAGCAGCATAT
GCTGTGATTGGCTGCCCTGCAAATTTGTTTCCCTTAAGGAACCTCACCAACTATCTCTGCTGGATTGAGGATT
CCGCATCTTTTGTGGAGGGCAGAGTATGGACATCTTACACCCGGTGGTCAAGTGTAATAAACTTGAGCATTG
AATGGGAGAAAAAGCAAATCGCACAATGACATATTTTGGTAATAACCGTATTTTTCACAGGGTGACAAATTGGG
CCAATAAATCTGCCATCTTTGAACTCATCTTTGGTGGCTAGACTGCTACGGCAGCTTCTCTGATGGGAAAGTTCC
TTTTTTGGCTTAACACTCACCCCTTCTTTCACACTCACATTTACCAATGACTCTGCTCCGTTTTTGGAGCAGACTG
TTTTAAGTTGCTCAGGAGCCTGATGGAACCATGAACCGAGACTCTTCTGTTTCTGCTGCAAGACCTCATCTGCA
CTAATGCCCTTCTCCCTGACCTTGACACTTCCCCCTTTAGCTATAAAAGCACTTACCAGCCGAACGTGGAACAGTA
TCACAAAAGATTCCATCTCCCAACGATTTTCAAGACTCTGAGCTCAGAGAGACTCCAGATTTTAAAAAATAATTTG
AGTGCTTGAAACTATTAGCTTTTAAAGTTCCCTTCCAAATATGTTAGTACCTACCCCTTACTTTTCCCCAAGAC
CATCTCAGGGTGGAGCATTCTGTCTAAGAGAAGAAAGATAAGGAGGCTCCCACCCACCTCTCCCAAGAGCAGACA
TTAAACATCTTTGTGCTTTGAAGAGAGTGAATTTGGATAGTCTTGTGATTCTCAGACTAACTTCCAGAATTATA
CTTTAACCCCTCCAGATAATGGTCCGCCTTTGGCATTGTGTGTACATCTGCAGTTTTCATGGTGGGTTGTTAAT
ATTTCAAATGTGTGGTTTATGAATACGTCTGTATAATCGGCTTCTGGAGTGAAACAGCAAACCCCAAATCTTCAA
AGTTGGAAGGAACCTTTAAAAATCATCCGGTCCAATCTCTTTCTCTTTCTGCCACCTCCCAAGGCAGAAATCCCC
TCTTCAGCTTCTTTGTAGGTGGGAATCCAGCCTCTGTTAGATATGTCCAGAGATGGAAACTCACTCCCCCTACAA
AAGATGGAGCTTAATGGAGAAATTGCAACTTTCATTAATAAAACAAATTCAGATGAAATATCAGTAACTGTCTTGG
ACAGTGCTGAAATCAGGTGGTTAAACGGGTAAACAAAATATACTGTATTTTGAAGAAATGGCACAAAAACAGGCAG
TCATCTTTAAGGGCTATGCCTAGGCAAACTACTAACATGCATTGTGAGAATGCCGTGTATACCTCACGTACTGTG
TACTTTGTACATATATTTTACCTTTTATACCTATGTTTCGATTTTGTGTTTGTGTTTGTCTGGCTTTGAGGCTTGT
TTGTTGTCTGTGCTGTCTGAATAACCTGCGTGTCTAAACACAGTGAAATGTGAATGATTATTGGCAATATTAC
CTTGACAGAATCATGGGACTTTGAGAAGAGGGAGGACAGAGGCCCTCTGTGCGACTAACCGCTCTCGTGGTTGCTCG
ACTGTTGTATCTGTGATACATTATCCGACTAAGGACTCTGGGCTGGCAGGGCCTTCTGCCGGGAAAGCTAGAAAC
ACTAGGTTCTTCTGTACATACGTGTATATATGTGAACAGTGAGATGGCCGTTTCTGACTTGTAGAGAAATTTTA
ATAAACCTGGTTTCGTA

330/2682
FIGURE 308

MRVGPVRSAMSGASQPRGPALLFPATRGVPAKRLDADDAAAVAAKCPRLSECSSPPDYLSPPGSPCSPQPPAA
PGAGGGSGSAPGPSRIADYLLLPLAEREHVSRALCIHTGRELRCKVFP IKHYQDKIRPYIQLPSHSNITGIVEVI
LGETKAYVFFEKDFGDMHSYVRSRKRLREEEAARLFKQIVSAVAHCHQSAIVLGDLKLRKFVFSTEERTQLRLES
LEDTHIMKGEDDALSDKHGCPAYVSPEILNTTGTYSKGAADVWSLGVMLYTLLVGRYPFHSDPSALFSKIRRGQ
FCIPEHISPKARCLIRSLRREPSERLTAPEILLHPWFESVLEPGYIDSEIGTSDQIVPEYQEDSDISSFFC

331/2682
FIGURE 309

GGCACGAGGGAGAACTAGTCTCGATTTTTTTTTTTTTTTTTTTCTTTGTTTGTTCCTGTATAAAAAAGGAC
CCCAAATATAAAGGTAGGGAAAGGGACAAGAGGGAACATAACCCCTTAGTGTAGAGAAATGGGAAGGAGAAGGAGA
AGCCTCAAAGGAGAGGTGGGAGGGGAATGTCATTAAAGGCAGCAAAGTAATCTCTGTAGAAAGATGGAGGAGGAC
CCTCCATAGCCTCAGAGATAAAGGCAAAGATTGCCCTCTCAGTGTCCAGAAGGGAAATGGCAGCTTTTCTTCCTT
CCATGGCAGCCACTCCATTGCTCACTCCGGATTACCTTCATCCTTATGTAGATAAGAGTGTCTGCAGAGCTCGAAA
GGCAGAGATTGCTTGTGTGGGTTAAAAGTCAGCATTTCAGCAGCAGCTGTGCTCCCGACTCCTCCATCTCAGG
TACCACCGACTGCACTGGGCGGGGCCCTCTGGGGGGAAGGCTCCACGGGGCAGGGATACATCTCGAGGCCAGTC
ATCCTCTGGAGGCAGCCCAATCAGGTCAAAGATTTTGCCCAACTGGTCGGCTTCAGAGTTTCACAGAAGAGAGG
CTTTCGACGAAACATCTCTGCAAAGATACAGCCAACACTCCACATGTCCACAGGTGTTGCATATGTGGACTGCAG
AAGAACTTCGGGAGCTCGGTACCAGAGTGTAAACAACCACGGGTGTAAGTGCCATCTGGTAGCTGTAGATTCTGGC
CAGGCCAAAGTCAGCCAGCTTGACTGTTCCACCCTTGTCACCAGAATGTTCTCTGGCTTCAGATCTCGGTGAAC
GATGCAATTGGCATGAAGGAAATCTAGGCCTCTTAGAACTGGCGCATCAGATCCTTGATCGTTTCGGCTGGCAA
GCCTGGTGGGGTGCCTTGTCCAGATATGTCCTTAGGTCTGGTCTACATGCTCAAACACCAGGGTTACCTTGAT
CTCCCGGTGAGTTCGGGATGTGGCACAGACGTCCATCAGCCGGACAACATTGGGATGCTCAAAGCCTCCAGTCG
CCTCAGTAAAGCCACCTCACGAACTGTGCTGATGGGAAGGCCTCCTCCACCTCCTCCTCATTGGGGACTCTCAC
ACTCTTGAGGGCCACAAAGTGGCCACTGTGGGGATCACGGGCCTTGTAACCTGTCCCATAGGCACCGACACCAAT
TTCAGCCACTGGCTCATATCGAGAGGTAGCCATTCTCAGATCAAGGGAGACCCTCACGCCAGCCGGGGTGTGT
GGGGGCGGCCGTTATCGGGGCCCGGAGCCGGTTCCTACGGCCCCATACCCGAGCTCGGTCCGGAGCAG

332/2682
FIGURE 310

MSTGVAYVDCRRISGARYQSVTTTGVSIAIW

FIGURE 311

CGCGATTCTCAGGGATTGATCCGCCTCTTCAGGTAAGTTATCTTCCGGCCCCGTACCACTGTGCCACAGGCGCAG
CCCGCTTCCCTCAGGTGCCCTATCCCGCGCAGAAGACCACGGCTTCACAGAGTGTATTAAAGGGCGTGGCCAGCG
GAACATCCCGCCCCATTCTGTGACGCACGGGTGGCGCGCTGGGACCCGAGGGGTGGGGCTGGGTTTAGTAGGA
GACCTGGGGCAAGGCCCCCTGTGGACGACCATCTGCCAGCTTCTCTCGTTCCGTCGATTGGGAGGAGCGGTGGCG
ACCTCGGCCTTCAGTGTTTCCGACGGAGTGAATGCGCGCGCGCTGGGATGCTGCTGCTGGGCTTGTGTCAGGC
GGGTGGGTGCTGCTGGGCCAGGCGATGGAGAAGGTGACAGGCGGCAACCTCTTGTCATGCTGCTGATCGCCTG
CGCCTTACCCCTCAGCCTGGTCTACCTGATCCGCTGCGCCGCCGCCACCTGGTCCAGCTGCCCCAGGGGTGAA
AAGTCTCCATACATTTTCTCCCAATTCCATTCTTGGGCATGCCATAGCATTGGGAAAAGTCCAATTGAATT
TCTAGAAAATGCATATGAGAAGTATGGACCTGTATTTAGTTTTACCATGGTAGGCAAGACATTTACTTACCTTCT
GGGGAGTGATGCTGCTGCACTGCTTTTAAATAGTAAAAATGAAGACCTGAATGCAGAAGATGTCTACAGTCGCCCT
GACAACACCTGTGTTTGGGAAGGGAGTTGCATACGATGTGCCTAATCCAGTTTTCTTGGAGCAGAAGAAAATGTT
AAAAAGTGGCCTTAACATAGCCCACTTTAAACAGCATGTTTCTATAATTGAAAAAGAAACAAAGGAATACCTTGA
GAGTTGGGGAGAAAGTGGAGAAAAAATGTGTTTGAAGCTCTTTCTGAGCTCATAATTTTAAACAGCTAGCCATTG
TTTGCATGGAAAGAAATCAGAAGTCAACTCAATGAAAGGTAGCACAGCTGTATGCAGATTGGATGGAGGTTT
CAGCCATGCAGCTGGCTCTTACCAGGTTGGCTGCCCTTGCCTAGTTTCAGACGCAGGGACAGAGCTCATCGGGA
AATCAAGGATATTTCTATAAGGCAATCCAGAAACGCAGACAGTCTCAAGAAAAAATGATGACATTCTCCAAAC
TTTACTAGATGCTACATACAAGGATGGCGCTCCTTTGACTGATGATGAAGTAGCAGGGATGCTTATTGGATTACT
CTTGGCAGGGCAGCATACATCCTCAACTACTAGTGCTTGGATGGGCTTCTTTTGGCCAGAGACAAAACACTTCA
AAAAAATGTTATTTAGAACAGAAAACAGTCTGTGGAGAGAATCTGCCCTCTTAACTTATGACCAGCTCAAGGA
TCTAAATTTACTTGATCGCTGTATAAAAGAAACATTAAGACTTAGACCTCCTATAATGATCATGATGAGAATGGC
CAGAACTCCTCAGACTGTGGCAGGGTATACCATTCCTCCAGGACATCAGGTGTGTGTTTCTCCCACTGTCAATCA
AAGACTTAAAGACTCATGGGTAGAACGCCCTGGACTTTAATCCTGATCGCTACTTACAGGATAACCCAGCATCAGG
GGAAAAGTTTGCCTATGTGCCATTTGGAGCTGGGCGTCATCGTTGTATTGGGGAAAATTTGCCTATGTTCAAAT
TAAGACAATTTGGTCCACTATGCTTCGTTTATATGAATTTGATCTCATTGATGGATACTTTCCCACTGTGAATTA
TACAACTATGATTACACCCCTGAGAACCCAGTTATCCGTTACAAACGAAGATCAAAATGAAAAGGTTGCAAGG
AACGAATATATGTGATTATCACTGTAAGCCACAAAGGCATTGGAAGAGAATGAAGTGTACAAAACAACTCTTGTA
GTTTACTGTTTTTTTTAAGTGTGTAATTCTAAAAGCCAGTTTATGATTTAGGATTTGTTAACTGAATGGTTCTAT
CAAATATAATAGCATTGACACATTTTCTAATAGTTATGATACTTATACATGTGCTTTCCAGGAAGTCTCTTGGTG
AAACAATTGTTGAGGGGGGATCTAGGTAATTGGCAGATTCTAAATAATATAATTTCCAGATAGTAATTTAAGAG
TACTCATCGCTCTTGCCAAATAAGTTTCCAGGTATTCAAATCTTGGACTAGTCTGCAAGGTATAAAGAATAAAAA
TCCCACTGAGATACTTGGAAACACAGTTTATTATTATTTATCTGGGCAATTATTGTGTGTGTGAGGATGGAAGG
GTAGGGAATAATCGAACATCTAAAGCCTTGAATAAGAGAATACTAATTGTTTTGGTATGATGATACTCAGAAATG
GAGATATTATAGGAAAAAGAAATCCTTTGGAATTTTAACTAAAATCACTGCATATGGGAAATTAAGAGATCCAGG
ACCATATTTGATAAGAGTTCCTAAAAATAATGTAATTATTAATGCTAAAGACTGCTCATGTATCTTGATCTAATT
ACTAAATAAATTACATATTTTATCTGATAAATATGTATCTAGTTCTACAAGGTCACATTTATGTGGAAGTCC
AAAGTCAAGTCTTAGGGGATAATTTTGTGTTTGGGCTCAGTTGTTCCCTGCTTCTTTTTTTTTTTTTTTTTT
TTGAGATGGAGTCTCGCTCTGTTGCCAGGCTGGAGTGCAGTGGTGGATCTCAGTCACTGCATCCTCTGCCCTC
CCGGGTTCAAGCAATTCTCTGCCTCAGCTCCCAAGTAGTTGGGATTACAGGCACCTGCCACCATGCTGGCTAA
TTTTTGTATTTTGTAGAGACGGGGTTTCACTATGTTGGCTAGGCTGGTCTTGAACCTCTGAGCCTCGTGAG
TCCACCCGCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCTTCCCTGCTTCTCT
CTAGAATCCAATTAGGGATGTTTGTACTACTCATATTGATTAACAGTTAACAACCTTTTTCTTTTTTAAAT
GTGAGATCAGTGAACCTGTTTAAAGATAATCTGAAACAAGGTCCTTGGGAGTAATAAATTTGGTCACATTCTG
TAAAGCACATTCTGTTTAGGAATCAACTTATCTCAAATTGTAACCGGGCCTAACTATATGAGATGGCTGAAAA
AATACCACATCGTCTGTTTTCTAGGTGATGCCAAATATTTTGCTTATGTATATTACAGTCTTTTTTAAAC
ACTGGAAGACTCATGTTAACTCTAATTGTGAAGGCAGAATCTCTGCTAATTTTTTCAGATTAAATTTCTTTTGA
AAAAAT

334/2682
FIGURE 312

MAAAAGMLLLGLLQAGGSVLGQAMEKVTGGNLLSMLLIACFTLSLVYLIRLAAGHLVQLPAGVKSPPIYFSP
FLGHAIAFGKSPIEFLENAYEKYGPVFSFTMVGKTFYLLGSDAAALLFNSKNEDLNAEDVYSRLTTPVFGK
YDVPNPVFLEQKKMLKSGLNIAHFKQHVSIIEKETKEYFESWGESGEKNVFEALSELIILTASHCLHGKEIR
NEKVAQLYADLDGGF SHAAWLLPGWLPLPSFRRRDRAHREIKDIFYKAIQRRQSQEKIDDILQTLDDATYK
PLTDDEVAGMLIGLLLAGQHTSSTTSAWMGFFLARDKTLQKKCYLEQKTVCGENLPPLTYDQLKDLNLLDRC
TLRLRPPIMIMMRMARTPQTVAGYTIPPGHQVCVSPVQRLKDSWVERLDFNPDRLQDNPASGEKFAYVPFGA
GRHRCIGENFAYVQIKTIWSTMLRLYEFDLIDGYFPTVNYTTMIHTPENPVIRYKRRSK

335/2682
FIGURE 313

ACCGCCGACGCAGACCCCTCTCTGCACGCCAGCCCGCCCGCACCACCAATGGCCACAGTTCAGCAGCTGGAAGGA
AGATGGCGCCTGGTGGACAGCAAAGGCTTTGATGAATACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCGAAAA
ATGGGCGCAATGGCCAAGCCAGATTGTATCATCACTTGTGATGGTAAAAACCTCACCATAAAAACTGAGAGCACT
TTGAAAACAACACAGTTTTCTTGTACCCTGGGAGAGAAGTTTGAAGAAACCACAGCTGATGGCAGAAAACTCAG
ACTGTCTGCAACTTTACAGATGGTGCATTGGTTTCAGCATCAGGAGTGGGATGGGAAGGAAAGCACAATAACAAGA
AAATTGAAAGATGGGAAATTAGTGGTGGAGTGTGTCATGAACAATGTCACCTGTACTCGGATCTATGAAAAAGTA
GAATAAAAAATCCATCATCACTTTGGACAGGAGTTAATTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCT
CCATACTGTTTCTTTCTTTTTTTTTTTCATTACTGTGTTCAATTATCTTTATCATAAACATTTTACATGCAGCTAT
TTCAAAGTGTGTTGGATTAAATTAGGATCATCCCTTTGGTTAATAAATAAATGTGTTTGTGCT

336/2682
FIGURE 314

MATVQQLGRWRLVDSKGFDEYMKELGVGIALRKMAMAKPDCIITCDGKNLTIKTESTLKTTQFSTLGEKFEE
TTADGRKTQTVCNFTD GALVQH QEWDGKESTITRKLKDGLVVECMNNVTCTRIYEKVE

337/2682
FIGURE 315

TGGCCGAAGCAGGGGGACAGCAAGGGACGCTCAGGCGGGGACCATGCGGGACGGCGGCTCGGAGCGGGCTGACGG
GCGCATCGTCAAGATGGAGGTGGACTACAGCGCCACGGTGGATCAGCGCCTACCCGAGTGTGCGAAGCTAGCCAA
GGAAGGAAGACTTCAAGAAGTCATTGAAACCCCTTCTCTCTCTGGAAGCAGACTCGTACTGCTTCCGATATGGT
ATCGACATCCCGTATCTTAGTTGCAGTAGTGAAGATGTGCTATGAGGCTAAAGAATGGGATTTACTTAATGAAAA
TATTATGCTTTTTGTCCAAAAGGCGGAGTCAGTTAAAACAAGCTGTTGCCAAAATGGTTCAACAGTGCTGTACTTA
TGTGAGGAAATCACAGACCTTCCTATCAAACCTTCGATTAATTGATACTCTACGAATGGTTACCGAAGGCAAGAT
TTATGTTGAAATTGAGCGTGCAGCTGACTAAAACATTAGCAACTATAAAAGAACAAAATGGTGATGTGAAAGA
GGCAGCCTCCATTTTACAGGAGTTACAGGTGGAACCTACGGGTCAATGGAAAAGAAAGAGCGAGTGGAATTTAT
TTTGGAGCAAATGAGGCTCTGCCTAGCTGTGAAGGATTACATTGAAACACAAAATCATCAGCAAGAAAATTAACAC
CAAATTTTCCAGGAAGAAAATACAGAGAAATTAAAGTTGAAGTACTATAATTTAATGATTTCAGCTGGATCAACA
TGAGGGATCCCTATTTGTCTATTTGTAAAGCACTACAGAGCAATATATGATACTCCCTGTATACAGGCAGAAAGTGA
AAAATGGCAGCAGGCTCTGAAGAGTGTGTACTCTATGTTATCCTGGCTCCTTTTGACAATGAACAGTCAGATTT
GGTTCACCGAATAAGTGGTGACAAGAAGTTAGAAGAAATCCCAAATACAAGGATCTTTTAAAGCTTTTTACCAC
AATGGAGTTGATGCGTTGGTCCACACTTGTGAGGACTATGGAATGGAATTAAGAAAAGGTTCCCTTGAGAGTCC
TGCAACGGATGTTTTTGGTCTACAGAGGAAGGTGAAAAAGGTGGAAAGACTTGAAGAACAGAGTTGTTGAACA
TAATATTAGAATAATGGCCAAGTATTATACTCGGATAACAATGAAAAGGATGGCACAGCTTCTGGATCTATCTGT
TGATGAGTCCGAAGCCTTTCTCTCAAATCTAGTAGTTAACAAGACCATCTTTGCTAAAGTAGACAGATTAGCAGG
AATTATCAACTTCCAGAGACCCAAGGATCCAAATAATTTATTAAATGACTGGTCTCAGAACTGAACTCATTAAAT
GTCTCTGTTTAAACAAAACCTACGCATCTCATAGCCAAAGAGGAGATGATACATAATCTACAATAAGGGTCTTAGTG
CTTTAGAAAAAAGTTAAAATTGGAAGTCATTAAAAAAGACTGTTATAATGGTGATATGTTGGGGTTTTTTTTTC
TAAGCTTCTTTGTCTTAAATTTTAAATAGTGAATATGTTTGAGACTCCCTTTGACCTTTTCAGTTCCCCAAGTTC
ATTGTTAACTTTGCATTTGCAATTGGTGCAAAAATACAGATTCTGTCTGTGAATACACAAAAGTTGTGTCTAT
AACTTACCCAGATATGTTTTCTATCATTGAAACCTTTTTAGCTACTGTTTGTTCATTCAACTAACAAACAT
ATTCCAATAATAAAGCAGTATATACATATTTCCCTTTCTACAGTTACCTCTGATTCTCAACATTTTGTGGGGTAG
TGATTTGGCAAGTGTTTTTAAATAAAACAAATCTCATTGTAAAGTTATCAGTCATTTAGTAGAATAGAAAAGCA
ACATAGAGCATAACAAGACATTTGGGATAGAGTTGTGATTTGTGAAGAATTTGTACTTTGATATTGTGGCGGAAA
GTCTAGACTGAGTGTGTATGCTGGTAAACTGTAGACTTTTTTTTTTTTTTTTGGAGTCCGGCTGGTTCCAATCACA
GTAGCTTGATTGCTTTTACGCCCTCATCCTCTCACTTGATCAGTTGTTCAACAGAATCAGCTGACATAATTGACAC
AGTTTATTGGGTGTTAAGTCCGCTCTATAGGGATAGTGACTACTTTTTTTTTTTTTTTTTTGTCTCTCTTC
CTCTCCCCTTTCTTATATGGGTTTAAATTTAACATAAAGTTGTTTTATAAGGCTATTGTGGCTTTAACTTG
TAAGTCTGATTACATCATTATGTTCCAAATTCATTATCTCTGTAGGAACCTTTAGTTCATTATATGAACACTG
GATAACCTAATTTTTTTAATGCTTTAAAAAATGGCAAAAAGACGTCAGGCCACCCTCATAGTAAGTGGTGTAG
TATTAAATATTTTACGGAATTAAAAGTAGCTTGCTGTCAAAGAAACACCTGAGATGAATTGGTGTGAACGAAT
TTTGCAAGTTTAAATTTGATTTATTTTACAGAGAAAATAGAAAAACAATGTTAGAAGGTTATTTAAATGATACTTA
AATAAAGAAAGTGTGAGGTCTACTTTAAAAAATTCAAATGAAGAGAAAAAGAAAAACAGCATTCTAGAAATGGC
ATTTCTCCTAATTAATTTTCCACTTAATGGAAGATTATCAATTGCTCTATTTTATGATCCAGGACTGAAGACAG
TTGTGGGATATCTGTCATATTTATCCTGTGAGTCATTGTGAATAATGACATACAGTACTGAAGTAATCTGATTTT
ATTCCTTTGGAATTCATGCAATTGGTCACACTAATAACATCAACATCTGCTATCACTTATCTTTTAAACTAAC
CAAAAAGGCTGGGATTACAGGCATGAGCCACTGCACCCAACCTCTTTCGTCTTTTAAACACACACTAGGC
TCTTTGTGATTATGATTGAGTCTATTTGTAACGTGTCCCAGTGACCAAATTGCACTCGACTCGATCAGCTGT
TCATCCATTTTCGTGTTTTTCTGTCAAACATTAATCCAGCAAATATATGAGGTATTTACCAATTTATTTCTTA
GTATTACAAAATAATTCATTAGCATAAAGTACAATAGTGAATATTTGAGTTGTTCCGAACCTCAATTAATCCTG
TTTTACATTTTACAGCTAAAGCTGGCAATCAGGAGAAGAAGCACTTTGTTTTAAATGTGGAGAAGATAACACTTG
ATTCATTTTATTGTCATTAGTGATTAACCAGCAGGAGAGGTGATGAGCCATTTTCAAATGAAATACCTTTTA
TTTCCATATAATTTTTTATTTTAGAGTTCAATAGCTGTTCTATGATTATCCTCAATTTCCATATGTTACTGAA
TCTGAAAAACATCTTTAAATTCAAACAGTTCCATTTCTCTCTGTAAGTGTTAAATGTGATAAAAGTACATAT
TTTAAATGTTTTTACGCTCTTGATATAGCAGCAATAAAAACACTAATTTGTGGGTATTTAAGAAAACCTGGAGA
ATAAACTCATACTTTAAAGATC

338/2682
FIGURE 316

MADGGSERADGRIVKMEVDYSATVDQRLPECAKLAKGRLQEVITLLSLEKQTRTASDMVSTSRILVAVVKMCY
EAKewDLLNENIMLLSKRRSQLKQAVAKMVQCCTYVEEITDLPIKLRLIDTLRMVTEGKIYVEIERARLTKTLA
TIKEQNGDVKEAASILQELQVETYGSMEKKERVEFILEQMRLCLAVKDYIRTQIISKKINTKFFQEENTEKLKLK
YYNLMIQLDQHEGSYLSICKHYRAIYDTPCIQAESEKWQALKSVVLYVILAPFDNEQSDLVHRISGDKKLEEIP
KYKDLLKLFTTMELMRWSTLVEDYGMELRKGSLESPATDVFGSTEEGEKRWKDLKNRVVEHNIRIMAKYYTRITM
KRMAQLLDLSVDESEAFLSNLVVNKTIFAKVDRLAGIINFQRKDPNNLLNDWSQKLNSLMSLVNKTTHLIAKEE
MIHNLQ

339/2682
FIGURE 317

CTGCTCGCGGCCGCCACCGCCGGGCCCGGCCGTCCCTGGCTCCCTCCTGCCTCGAGAAGGGCAGGGCTTCTCA
GAGGCTTGGCGGGAAAAAGAACGGAGGGAGGGATCGCGCTGAGTATAAAAGCCGGTTTTCGGGGCTTTATCTAA
CTCGCTGTAGTAATTCCAGCGAGAGGCAGAGGGAGCGAGCGGGCGCCGGCTAGGGTGAAGAGCCGGGCGAGCA
GAGCTGCGCTGCGGGCGTCTGGGAAGGGAGATCCGGAGCGAATAGGGGGCTTCGCCTCTGGCCCAGCCCTCCCG
CTTGATCCCCCAGGCCAGCGGTCCGCAACCCTTGCCGCATCCACGAACTTTGCCCATAGCAGCGGGCGGGCACT
TTGCACTGGAACTTACAACACCCGAGCAAGGACGCGACTCTCCCGACGCGGGGAGGCTATTCTGCCCATTTGGGG
ACACTTCCCCGCCGTGCCAGGACCCGCTTCTCTGAAAGGCTCTCCTTGACAGCTGCTTAGACGCTGGATTTTTTT
CGGGTAGTGGAAAACAGCAGCCTCCCGCGACGATCCCCCTCAACGTTAGCTTCACCAACAGGAATATGACCTC
GACTACGACTCGGTGCAGCCGTATTTCTACTGCGAGCAGGAGGAGAACTTCTACCAGCAGCAGCAGCAGCGAG
CTGCAGCCCCCGCGGCCAGGATATCTGGAAGAAATTCGAGCTGCTGCCACCCCGCCCCCTGTCCCTAGC
CGCCGCTCCGGGCTCTGCTCGCCCTCCTACGTTGCGGTACACCCCTTCTCCCTTCGGGGAGACAACGACGGCGGT
GGCGGGAGCTTCTCCACGGCCGACAGCTGGAGATGGTGACCGAGCTGCTGGGAGGAGACATGGTGAACAGAGT
TTCATCTGCGACCCGACGACGACCTTCATCAAAAACATCATCATCCAGGACTGTATGTGGAGCGGCTTCTCG
GCCGCCGCAAGCTCGTCTCAGAGAAGCTGGCCTCCTACCAGGCTGCGCGCAAAGACAGCGGCAGCCCGAACCCC
GCCCGCGGCCACAGCGTCTGCTCCACCTCCAGCTTGTACCTGCAGGATCTGAGCGCCGCGCCTCAGAGTGCATC
GACCCCTCGGTGGTCTTCCCTACCCCTCAACGACAGCAGCTCGCCCCAAGTCTGCGCCTCGCAAGACTCCAGC
GCCTTCTCTCCGTCTCGGATTCTCTGCTCTCCTCGACGGAGTCTCCCGCAGGGCAGCCCCGAGCCCTGGTG
CTCCATGAGGAGACACCGCCACCACCAGCAGCGACTCTGAGGAGGAACAAGAAGATGAGGAAGAAATCGATGTT
GTTTCTGTGAAAAGAGGCAGGCTCCTGGCAAAAGGTGAGAGTCTGGATCACCTTCTGCTGGAGGCCACAGCAAA
CCTCCTCACAGCCCACTGGTCTCAAGAGGTGCCACGTCTCCACACATCAGCACAACTACGCAGCGCCTCCCTCC
ACTCGGAAGGACTATCTGCTGCCAAGAGGGTCAAGTTGGACAGTGTGAGAGTCTGAGACAGATCAGCAACAAC
CGAAAATGCACCAGCCCCAGGTCTCGGACACCGAGGAGAAATGTCAAGAGGCGAACACACAACGTCTTGAGCGC
CAGAGGAGGAACGAGCTAAAACGGAGCTTTTTTGCCCTGCGTGACAGATCCCGGAGTTGGAAAACAATGAAAAG
GCCCCAAGGTAGTTATCCTTAAAAAGCCACAGCATACTCTGTCCGTCCAAGCAGAGGAGCAAAAGCTCATT
TCTGAAGAGGACTTGTTGCGGAAACGACGAGAACAGTTGAAACACAACTTGAACAGCTACGGAACCTTGTGCG
TAAGGAAAAGTAAGGAAAACGATTCCTTCTAACAGAAATGTCTGAGCAATCACCTATGAACTTGTTCAAATGC
ATGATCAAATGCAACCTCACAACTTGGCTGAGTCTTGAGACTGAAAGATTTAGCCATAATGTAACTGCCTCAA
ATTGGACTTTGGGCATAAAAGAACTTTTTTATGCTTACCATCTTTTTTTTTCTTTAACAGATTTGTATTTAAGA
ATTGTTTTTAAAAAATTTTAA

340/2682
FIGURE 318

MPLNVSFTNRNYDLDYDSVQPYFYCDEEENFYQQQQQSELOPPAPSEDIWKKFELLPTPPLSPSRRSGLCSPSYV
AVTPFSLRGDNDGGGGSFSTADQLEMVTELLGGDMVNQSFICDPDDETFIKNIIIQDCMWSGFSAAAKLVSEKLA
SYQAARKDSGSPNPARGHSVCSTSSLYLQDLAAAASECIDPSVVFPYPLNDSSSPKSCASQDSSAFSPSSDSLLS
STESSPQGSPEPLVLHEETPPTTSSDSEEEQEDEEEDVVSVEKRQAPGKRSESGSPSAGGHSKPPHSPLVLKRC
HVSTHQHNYAAPSTRKDYPAAKRVKLDVVRVLRQISNNRKCTSPRSSDTEENVKRRTHNVLERQRRNELKRSFF
ALRDQIPELENNEKAPKVVLKKATAYILSVQAEEQKLI SEEDLLRKRREQLKHKLEQLRNSCA

341/2682
FIGURE 319A

ACTCTGGAGTGGGAGTGGGAGCGAGCGCTTCTGCGACTCCAGTTGTGAGAGCCGCAAGGGCATGGGAATTGACGC
 CACTCACCGACCCCCAGTCTCAATCTCAACGCTGTGAGGAAACCTCGACTTTGCCAGGTCCCCAAGGGCAGCGGG
 GCTCGGCGAGCGAGGCACCCCTTCTCCGTCCCCATCCCAATCCAAGCGCTCCTGGCACTGACGACGCCAAGAGACT
 CGAGTGGGAGTTAAAGCTTCCAGTGAGGGCAGCAGGTGTCCAGGCCGGGCTGCGGGTTCTGTGACGTCTTGC
 CCTAGGCAAAGGTCCCAGTTCTTCTCGGAGCCGGCTGTCCGCGCCACTGGAAACCGCACCTCCCCGCAGC**ATG**

GGCACCAGCCTCAGCCCGAACGACCCCTTGGCCGCTAAACCCGCTGTCCATCCAGCAGACCACGCTCCTGCTACTC
 CTGTGCGGTGCTGGCCACTGTGCATGTGGGCCAGCGCTGCTGAGGCAACGGAGGCGGCAGCTCCGGTCCGCGCCC
 CCGGGCCCCGTTTGGCTGGCCACTGATCGGAAACGCGCGGGTGGGCCAGGCGGCTCACCTCTCGTTGCTCGC
 CTGGCGCGGCGTACGGCGACGTTTTCCAGATCCGCTGGGCAGCTGCCCCATAGTGGTGCTGAATGGCGAGCGC
 GCCATCCACCAGGCCCTGGTGCAGCAGGGCTCGGCCCTCGCCGACCGCGCGGCTTCGCTCCTTCCGTGTGGTG
 TCCGGCGGCGCAGCATGGCTTTCGGCCACTACTCGGAGCACTGGAAGGTGCAGCGCGCGCAGCCCACAGCATG
 ATGCGCAACTTCTTCACGCGCCAGCCGCGCAGCCGCCAAGTCTCGAGGGCCACGTGCTGAGCGAGGCGCGCGAG
 CTGGTGGCGCTGCTGGTGCAGCGGCGAGCGCGACGGCGCTTCTCGACCCGAGGCGGCTGACCGTCTGTGGCCGTG
 GCCAACGTCATGAGTGCCGTGTGTTTCGGCTGCCGCTACAGCCACGACGACCCCGAGTTCGCTGAGCTGCTCAGC
 CACAACGAAGAGTTCCGGGCGCAGGTGGGCGCGGGCAGCCTGGTGGACGTGATGCCCTGGCTGCAGTACTTCCCC
 AACCCGGTGGCGACCGTTTTTCGCGCAATTCGAGCAGCTCAACCGCAACTTCAGCAACTTCATCCTGGACAAGTTC
 TTGAGGCACTGCGAAAGCCTTCGGCCCGGGGCGCCCCCGCGACATGATGGACGCTTTATCCTCTCTGCGGAA
 AAGAAGGCGGCGGGGACTCGCACGGTGGTGGCGCGGCTGGATTGGGAGAACGTACCGGCCACTATCACTGAC
 ATCTTCGGCGCCAGCCAGGACACCCCTGTCCACCGCGCTGCAGTGGCTGCTCCTCTTCCAGGTATCCTGAT
 GTGCAGACTCGAGTGCAGGCAGAATTGGATCAGGTGCTGGGGAGGGACCGTCTGCCTTGTATGGGTGACCAGCCC
 AACCTGCCCTATGTCTGGCCTTCTTTATGAAGCATGCGCTTCTCCAGCTTGTGCTGTCACTATTCTCAT
 GCCACCACTGCCAACACCTCTGTCTTGGGCTACCACATTCCCAAGGACACTGTGGTTTTTGTCAACCACTGGTCT
 GTGAATCATGACCCAGTGAAGTGGCCTAACCCGGAGAATTTGATCCAGCTCGATTCTTGGACAAGGATGGCCTC
 ATCAACAAGGACCTGACCAGCAGAGTGATGATTTTTTTCAGTGGGCAAAAGGCGGTGCATTGGCGAAGAATTTCT
 AAGATGCAGCTTTTTCTCTCATCTCCATCCTGGCTCACCAGTGCATTTCAGGGCCAACCCAAATGAGCCTGCG
 AAAATGAATTTAGTTATGGTCTAACCATTAACCCAAAGTCATTTAAAGTCAATGTCACTCTCAGAGAGTCCATG
 GAGCTCCTTGATAGTGTGTCCAAAATTTACAAGCCAAGGAACTTGCCAA**TAGA**AGCAAGAGGCAAGCTGAAA
 TTTTAGAAATATTCACATCTTCGGAGATGAGGAGTAAATTCAGTTTTTTTCCAGTTCTCTTTGTGCTGCTTC
 TCAATTAGCGTTTAAGGTGAGCATAAATCAACTGTCCATCAGGTGAGGTGTGCTCCATACCCAGCGGTTCTTCAT
 GAGTAGTGGGCTATGCAGGAGCTTCTGGGAGATTTTTTGTAGTCAAAGACTTAAAGGGCCCAATGAATTATTATA
 TACATACTGCATCTTGGTTATTTCTGAAGGTAGCATTCTTTGGAGTTAAATGCACATATAGACACATACACCCA
 AACACTTACACCAAATACTGAATGAAGAAGTATTTTGGTAACCAAGGCCATTTTGGTGGGAATCCAAGATTGGT
 CTCCCATATGCAGAAATAGACAAAAGTATATTAACAAAGTTTCAGAGTATATTGTTGAAGAGACAGAGACAAG
 TAATTTAGTGTAAGTGTGTGATTGAAGGTGATAAGGGAAAAGATAAAGACCAGAAATTCCTTTTACACCTTTT
 CAGGAAAATAACTTAGACTCTAGTATTTATGGGTGGATTTATCCTTTTGCCTTCTGGTATACTTCTTACTTTTA
 AGGATAAATCATAAAGTCACTTGCTCAAAAAGAAATCAATAGTTGAATTAGTGAGTATAGTGGGGTTCCATGAGT
 TATCATGAATTTTAAAGTATGCATTATTAATTGTAAACTCCAAGGTGAITGTGTACCTCTTTTGCTTGCCAAA
 GTACAGAATTTGAATTATCAGCAAAGAAAAAAGCCAGCCAAGCTTTAAATTATGTGACCATAATGTACT
 GATTTTCAGTAAGTCTCATAGTTAAAAAAGTCAACCAATAGTGTGAAATATATTACTTAACTGTCCGTAAG
 CAGTATATTAGTATTATCTTGTTCAGGAAAAGGTGAATAATATATGCCTTGTGTAATATTGAAAATTGAAAAGT
 ACAACTAACGCAACCAAGTGTGCTAAAAATGAGCTTGATTAAATCAACCACCTATTTTGGACATGGAAATGAAGC
 AGGGTTTCTTTTCTTCACTCAAATTTTGGCGAATCTCAAATTAGATCCTAAGATGTGTTCTTATTTTATAACA
 TCTTTATTGAAATCTATTTATAATACAGAATCTGTGTTTGAATAAACCTAATTAATATATTAATTTCCAAAT
 TCATGGCATGCTTAAATTTTAACTAAATTTTAAAGCCATTCTGATTATTGAGTTCAGTTGAAGTTAGTGGAAT
 CTGAACATTCTCTGTGGAAGGCAGAGAAATCTAAGCTGTGTCTGCCAATGAATAATGGAAAATGCCATGAATT
 ACCTGGATGTTCTTTTACGAGGTGACAAGAGTTGGGGACAGAACTCCCATTACAAGTACCAAGTTTCTCTTCT
 AGATGATTTTTTGAAGTTAACATTAATGCCTGCTTTTGGAAAGTCAGAATCAGAAGATAGTCTTGGAGCTGT
 TTGAAAAGACAGTGGAGATGAGGTGAGTGTGTTTTTAAGATGGCAATTACTTTGGTAGCTGGGAAAGCATAA

342/2682
FIGURE 319B

AGCTCAAATGAAATGTATGCATTACATTTAGAAAAGTGAATTGAAGTTTCAAGTTTAAAGTTCATTGCAATTA
AACTTCCAAAGAAAGTTCTACAGTGTCCTAAGTGCTAAGTGCTTATTACATTTTATTAAGCTTTTTGGAATCTTT
GTACCAAATTTTAAAAAGGGAGTTTTTGTAGTTGTGTGTATGTGTGTGGGGTGGGGGATGGTAAGAGAA
AAGAGAGAAACACTGAAAAGAAGGAAAGATGGTTAAACATTTTCCCACTCATTCTGAATTAATTAATTTGGAGCA
CAAAATTCAAAGCATGGACATTTAGAAGAAAGATGTTTGGCGTAGCAGAGTTAAATCTCAAATAGGCTATTAAAA
AAGTCTACAACATAGCAGATCTGTTTTGTGGTTTTGGAATATTAAAAAACTTCATGTAATTTTATTTTAAATTTT
ATAGCTGTACTTCTTGAATATAAAAAATCATGCCAGTATTTTTTAAAGGCATTAGAGTCAACTACACAAAGCAGGC
TTGCCCAGTACATTTAAATTTTTTGGCACTTGCCATTCCAAAATATTATGCCCCACCAAGGCTGAGACAGTGAAT
TTGGGCTGCTGTAGCCTATTTTTTTAGATTGAGAAATGTGTAGCTGCAAAAATAATCATGAACCAATCTGGATGC
CTCATTATGTCAACCAGGTCCAGATGTGCTATAATCTGTTTTTACGTATGTAGGCCCAGTCGTCATCAGATGCTT
GCGGCAAAAGAAAGCTGTGTTTTATATGGAAGAAAGTAAGGTGCTTGGAGTTTACCTGGCTTATTTAATATGCTTA
TAACCTAGTTAAAGAAAGGAAAGAAAAACAAAAACGAATGAAAATAACTGAATTTGGAGGCTGGAGTAATCAGA
TTACTGCTTTAATCAGAAACCCTCATTGTGTTTTCTACCGGAGAGAGAAATGTATTTGCTGACAACCATTAAAGTCA
GAAGTTTTACTCCAGGTTATTGCAATAAAAGTATAATGTTTATTAAATGCTTCATTTGTATGTCAAAGCTTTGACT
CTATAAGCAAATTGCTTTTTTCCAAAACAAAAAGATGTCTCAGGTTTGTGTTTGTGAATTTTCTAAAAGCTTTCAI
GTCCCAGAACTTAGCCTTTACCTGTGAAGTGTTACTACAGCCTTAATATTTTCTAGTAGATCTATATTAGATCA
AATAGTTGCATAGCAGTATATGTTAATTTGTGTGTTTTTAGCTGTGACACAAGTGTGTGATTAAAAGGTATACTT
TAGTAGACATTTATAACTCAAGGATACCTTCTTATTTAATCTTTTCTTATTTTGTACTTTATCATGAATGCTTT
TAGTGTGTGCATAATAGCTACAGTGCATAGTTGTAGACAAAGTACATTCTGGGGAAACAACATTTATATGTAGCC
TTTACTGTTTGATATACCAAATTAATAAAAAAATTGTATCTCATTACTTATACTGGGACACCATTACCAAATAAT
AAAAATCACTTTTATAATCTTGAAAAA

343/2682
FIGURE 320

MGTSLSPNDPWPLNPLSIQQTLLLLLLSVLATVHVGQRLLRQRRRQLRSAPPGPFAWPLIGNAAVQAAHLSFA
RLARRYGDVFQIRLGSCPIVVLNGERAIHQALVQQGSADFADRFASFVRVSGGRSMAFGHYSEHWKVQRRAAHS
MMRNFFTRQPRSRQVLEGHVLSEARELVALLVRGSADGAFLDPRPLTVVAVANVMSAVCFGCRYSHDDPEFRELL
SHNEEFGRTVGAGSLVDVMPWLQYFFPNPVRTVFREFEQLNRNFSNFILDKFLRHCESLRPGAAPRDMMDAFILSA
EKKAAGDSHGGGARLDLENVPATITDIFGASQDTLSTALQWLLLLFTRYPDVQTRVQAELDQVVGRDRLPCMGDQ
PNLPYVLAFLYEAMRFSFVPTIPHATTANTSVLGYHIPKDTVVFVNQWSVNHDVPKWPENFDPARFLDKDG
LINKDLTSRVMIFSVGKRRRCIGEELSKMQLFLFISILAHQCDFRANPNEPAKMNFSYGLTIKPKSFKNVTLRES
MELLDHAVQNLQAKETCQ

FIGURE 321A

CTCTACACACACACACACACCCCTCCCTGCCATCCCTCCCCGGACTCCGGCTCCGGCTCCGATTGCAATTGCAACC
TCCGCTGCCGTCGCCGACGACGCCACCAATTCGCCAGCGTTACAGTGGCTCTTGCTTCGATGTCCTAGCCTAGG
GGCCCCCGGGCCGGAATTGGCTGGGCTCCCTTACCCTCTGCGGAGTCAATGAGGGCGAACGACGCTCTGCAGGTG
CTGGGCTTGCTTTTACGCTGGCCCGGGCTCCGAGGTGGGCAACTCTCAGGCAGTGTGTCTGGGACTCTGAAT
GGCTGAGTGTGACCGGCGATGCTGAGAACCAATACCAGACACTGTACAAGCTCTACGAGAGGTGTGAGGTGGTG
ATGGGGAACCTTGAGATTGTGCTACGGGACACAATGCCGACCTCTCCTTCTGCAGTGGATTGAGAAGTGACA
GGCTATGTCTCGTGGCCATGAATGAATTCTCTACTCTACCATTGCCCAACCTCCGCGTGGTGCAGGGACCCAG
GTCTACGATGGGAAGTTTGCCATCTTCGTCA GTTGAACATAACACCAACTCCAGCCACGCTCTGCGCCAGCTC
CGCTTGACTCAGCTACCGAGATTCTGTGAGGGGTGTTTATATTGAGAAGAACGATAAGCTTTGTCACATGGAC
ACAATTGACTGGAGGGAATCGTGAGGGACCGAGATGCTGAGATAGTGGTGAAGGACAATGGCAGAAGCTGTCCC
CCCTGTCTATGAGGTTTGCAAGGGGCGATGCTGGGGTCTGGATCAGAAGACTGCCAGACATTGACCAAGACCATC
TGTGCTCCTCAGTGAATGGTCACTGCTTTGGGCCCAACCCCAACCAGTGTCTGCCATGATGAGTGTGCCGGGGC
TGCTCAGGCCCTCAGGACACAGACTGCTTTGCCTGCCGGCACTTCAATGACAGTGGAGCCTGTGTACCTCGCTGT
CCACAGCCTCTTGCTACAACAAGCTAACTTTCCAGTGGGAACCAATCCCCACACCAAGTATCAGTATGGAGGA
GTTTGTGTAGCCAGCTGTCCCCATAACTTTGTGGTGGATCAACATCTGTGTGAGGGCCTGTCTCTCTGACAAG
ATGGAAGTAGATAAAAAATGGGCTCAAGATGTGTGAGCCTGTGGGGGACTATGTCCAAAGCCTGTGAGGGAACA
GGCTCTGGGAGCCGCTCCAGACTGTGGACTCGAGCAACATTGATGGATTGTGAACCTGCACCAAGATCTGGGC
AACCTGGACTTTCTGATCACCGGCCCTCAATGGAGACCCTGGCACAAGATCCCTGCCCTGGACCCAGAGAAGCTC
AATGTCTTCCGGACAGTACGGGAGATCACAGGTTACCTGAACATCCAGTCTCTGGCCGCCCCACATGCACAACTTC
AGTGTTTTTTCCAATTGTGACAACCATTGGAGGCAGAAAGCCTCTACAACCGGGGCTTCTCATTGTTGATCATGAAG
AACTTGAATGTACATCTCTGGGCTTCCGATCCCTGAAGGAAATTAGTGTGGGCGTATCTATATAAGTGCCAAT
AGGCAGCTCTGTCTACCACCACTCTTTGAACTGGACCAAGGTGCTTCGGGGGCTACGGAAGAGCGACTAGACATC
AAGCATAATCGGCCCGCGCAGAGACTGCGTGGCAGAGGGCAAAGTGTGTGACCCACTGTGCTCTCTGGGGGATGC
TGGGGCCCAGGCCCTGGTCAGTGTCTGTCTGTGCAAAATTATAGCCGAGGAGGTGTCTGTGTGACCCACTGCAAC
TTTCTGAATGGGGAGCCTCGAGAATTGCCCATGAGGCCGAATGCTTCTCTGCCACCCGGAATGCCAACCCATG
GGGGGCACTGCCACATGCAATGGCTCGGGCTCTGATACTTGTGCTCAATGTGCCCATTTTCGAGATGGGGCCAC
TGTGTGAGCAGCTGCCCCCATGGAGTCTTAGGTGCCAAGGGCCCAATCTACAAGTACCCAGATGTTTCAAGATGAA
TGTGCGCCCTGCCATGAGAAGTGCACCCAGGGGTGTAAAGGACCAGAGCTTCAAGACTGTTTAGGACAAACACTG
GTGCTGATCGGCAAAACCCATCTGACAATGGCTTTGACAGTGATAGCAGGATTGGTAGTGATTTTCATGATGCTG
GGCGGCACTTTTCTCTACTGGCGTGGGCGCCGGATTAGAATAAAAGGGCTATGAGGCGATACTTGAACGGGGT
GAGAGCATAGAGCCTCTGGACCCAGTGAGAAGGCTAACAAAGTCTTGCCAGAATCTTCAAAGAGACAGAGCTA
AGGAAGCTTAAAGTGCTTGGCTCGGGTGTCTTTGGAAGTGTGCACAAAGGAGTGTGGATCCCTGAGGGTGAATCA
ATCAAGATTCCAGTCTGCATTAAAGTCAATTGAGGACAAGAGTGGACGGCAGAGTTTTCAAGCTGTGACAGATCAT
ATGCTGGCCATTGGCAGCCTGGACCATGCCACATTGTAAGGCTGTGGGACTATGCCAAGGGTCACTCTGCGAC
CTTGCTCACTCAATATTTGCCTCTGGGTTCTCTGCTGGATCATGTGAGACAACACCGGGGGCACTGGGGCCACAG
CTGCTGCTCAACTGGGGAGTACAAATTGCCAAGGGAATGTACTACCTTGAGGAACATGGTATGGTGCATAGAAAC
CTGGCTGCCGAAACGTGCTACTCAAGTCAACCCAGTCAAGTTCAAGTTGAGGATGAGATTTTGGTGTGGCTGACCTGCTG
CCTCCTGATGATAAAGCTGCTATACAGTGAAGGCCAAGACTCCAATTAAGTGGATGGCCCTTGAGAGTATCCAC
TTTGGGAAATACACACACCAAGAGTGATGTCTGAGACTATGGTGTGACAGTTTGGGAGTTGATGACCTTGGGGCA
GAGCCCTATGACAGGGCTACGATTGGCTGAAGTACCAGACCTGCTAGAGAAGGGGGAGCGGTTGGCACAGCCCCAG
ATCTGCACAATTGATGTCTACATGGTGATGGTCAAGTGTTGGATGATTGATGAGAACATTGCCCAACCTTTAAAG
GAACTAGCCAATGAGTTTACCAGGATGGCCCCGAGACCCACCACGGTATCTGGTCATAAAGAGAGAGAGTGGGCCT
GGAATAGCCCTTGGGCCAGAGCCCCATGGTCTGACAAACAAGAAGCTAGAGGAAGTAGAGCTGGAGCCAGAAGTCA
GACCTAGACCTAGACTTGGAGCAGAGGAGGACAACCTGGCAACCACCACACTGGGCTCCGCCCTCAGCCTACCA
GTTGGAACACTTAATCGGCCACGTGGGAGCCAGAGCCTTTTAAAGTCCATCATCTGGATACATGCCCATGAACCAG
GGTAATCTTGGGGGGTCTTGGCAGGAGTCTGCAGTTTCTGGGAGCAGTGAACGGTGCCCCCGTCCAGTCTCTCTA
CACCCAATGCCACGGGGATGCCTGGCATCAGAGTCATCAGAGGGGCATGTAACAGGCTCTGAGGCTGAGCTCCAG
GAGAAAGTGTCAATGTGTAGAAGCCGGAGCAGGAGCCGGAGCCACGGCCACGCGGAGATAGCGCCTACCATTCC

345/2682
FIGURE 321B

CAGCGCCACAGTCTGCTGACTCCTGTTACCCCACTCTCCCCACCCGGGTTAGAGGAAGAGGATGTCAACGGTTAT
GTCATGCCAGATACACACCTCAAAGGTACTCCCTCCTCCCGGAAGGCACCCTTTCTTCAGTGGGTCTCAGTTCT
GTCTGGGTACTGAAGAAGAAGATGAAGATGAGGAGTATGAATACATGAACCGGAGGAGAAGGCACAGTCCACCT
CATCCCCCTAGGCCAAGTTCCCTTGAGGAGCTGGGTATGAGTACATGGATGTGGGGTCAGACCTCAGTGCCTCT
CTGGGCAGCACACAGAGTTGCCCACTCCACCCTGTACCCATCATGCCCACTGCAGGCACAACTCCAGATGAAGAC
TATGAATATATGAATCGGCAACGAGATGGAGGTGGTCCTGGGGGTGATTATGCAGCCATGGGGGCCTGCCAGCA
TCTGAGCAAGGGTATGAAGAGATGAGAGCTTTTCAGGGGCCTGGACATCAGGCCCCCCATGTCCATTATGCCCCG
CTAAAACTCTACGTAGCTTAGAGGCTACAGACTCTGCCTTTGATAACCTGATTACTGGCATAGCAGGCTTTTC
CCCAAGGCTAATGCCAGAGAACGTAATCCTGCTCCCTGTGGCACTCAGGGAGCATTTAATGGCAGCTAGTGCC
TTTAGAGGGTACCGTCTTCTCCCTATTCCCTCTCTCTCCAGGTCCCAGCCCCCTTTTCCCCAGTCCCAGACAATT
CCATTCAATCTTTGGAGGCTTTTAAACATTTTGACACAAAATTCTTATGGTATGTAGCCAGCTGTGCACTTTCTT
CTCTTTCCCAACCCAGGAAAGGTTTTCTTATTTTGTGTGCTTTCCAGTCCCATTCTCAGCTTCTTCACAGG
CACTCCTGGAGATATGAAGGATTACTCTCCATATCCCTTCTCAGGCTCTTGACTACTTGGAACTAGGCTCTT
ATGTGTGCCTTTGTTTCCCATCAGACTGTCAAGAAGAGGAAAGGGAGGAAACCTAGCAGAGGAAAGTGTAATTTT
GGTTTATGACTCTTAACCCCTAGAAAGACAGAAGCTTAAATCTGTGAAGAAAGAGGTTAGGAGTAGATATTGA
TTACTATCATAAATCAGCACTTAACTATGAGCCAGGCATCATACTAACTTCACCTACATTATCTCACTTAGTCC
TTTATCATCCTTAAACAATTCTGTGACATACATATTATCTCATTTTACACAAAGGGAAGTCGGGCATGGTGGCT
CATGCCTGTAATCTCAGCACTTTGGGAGGCTGAGGCAGAAGGATTACCTGAGGCAAGGAGTTTGAGACCAGCTTA
GCCAACATAGTAAGACCCCCATCTC

346/2682
FIGURE 322

MRANDALQVLGLLFSLARGSEVGNSQAVCPGTLNGLSVTGDAENQYQTLTKLYERCEVVMGNLEIVLTGHNADLS
FLQWIREVTGYVLVAMNEFSTLPLPNLRVVRGTQVYDGKFAIFVMLNYNTNSSHALRQLRLTQLTEILSGGVYIE
KNDKLCHMDTIDWRDIVRDRDAEIVVKDNGRSCPPCHEVCKGRCWGPGEEDCQTLTKTICAPQCNGHCFGPNPNQ
CCHDECAGGCSGPQDTCFACRHFNDGACVPRCPQPLVYNKLTQLEPNPHTKYQYGGVCVASCPHNFVVDQTS
CVRACPPDKMEVDKNGLKMCEPCGGLCPKACEGTGSGSRFQTVDSNIDGFVNCTKILGNLDFLITGLNGDPWHK
IPALDPEKLNIVFRTVREITGYLNIQSWPPHMHNFVFSNLTTIGGRSLYNRGFSLIMKNLNVTSLGFRSLKEIS
AGRIYISANRQLCYHHSNLNWKVLRGPTTEERLDIKHNRPRRDCVAEGKVCDPLCSSGGCWGPQCLSCRNYSR
GGVCVTHCNFLNGEPREFAHEAECFSCHPECQPMGGTATCNGSGSDTCAQCAHFRDGPCHVSSCPHGVLGAKGPI
YKYPDVQNECRPCHENCTQGCKGPELQDCLGQTLVLIGKTHLTMAITVIAGLVVIFMMLGGTFLYWRGRRRIQNR
AMRRYLERGESIEPLDPSEKANKVLARIFKETELRKLKVLGSGVFGTVHKGVWIEGESIKIPVCIKVIDEKSGR
QSFQAVTDHMLAIGSLDHAHIVRLLGLCPGSSLQLVLTQYLPGLSLLDHVRQHRGALGPQLLLNWGVQIAKGMYYL
EEHGMVHRNLAARNVLLKSPSQVQVADFGVADLLPPDDKQLLYSEAKTPIKWMALESIHFVKYTHQSDVWSYGV
VWELMTFGAEPYAGLRLAEVPDLLEKGERLAQPQICTIDVYVMVVKCWMIDENIRPTFKELANEFTRMARDPPRY
LVIKRESGPGIAPGPEPHGLTNKKLEEEVELEPELDLDDLEAEEDNLATTTLSALSPLVGTNLNRPRGSQSLLSP
SSGYMPMNQGNLGGSCQESAVSGSSERCPRVSLHPMPRGCLASESSEGHVGTGSEAELOEKVSMCRSRSRSPR
PRGDSAYHSQRHSLLTPTPLSPPGLEEDVNGYVMPDTHLKGTPSSREGTLSSVGLSSVLGTEEEDEDEEYMYM
NRRRRHSPPHPPRPSSLEELGYEYMDVGSLSASLGSTQSCPLHPVPIMPTAGTTPDEDEYMNRRQRDGGGPGGD
YAAMGACPASEQGYEEMRAFAQGPGHQAPHVHYARLKTLSLEATDSAFDNPDYWHSRLFPKANAQRT

347/2682
FIGURE 323A

GTCGGCCGTCCCTTTAATTTTTAAATACACGGTCCCTCTTTTCTCTGGGGGGGCAAGCAAGAAATCAAAGAA
GGAGGAGACAAGCCGTCAATTTTCTCCAAAACAAACCCACCGGGCAA¹TTGGTCTCGGGGTAGGGGGAGACGGG
GTGATTGCAAATTATTCCAGGACGAGATCCAGTTCTCCAGCGGAAAGGGGCAAAGGAACGCCGCGCTTGGAAG
GGCAGGGTACGACGCTCCCTTGCAGCGCCCGCAGGACCCCGCAAGCTCGTGCCGGCGAAATCGGAGACCGCC
GATCTGTCTCTGTTCTCTCTGACGCTCTGGCTGCATTTCGGAGGAAGACCTGGGGCGCGAGCGAGCGCGACAGC
ATGAGCCTGTGCTGACCTCCGCGCGCGGGCCGAGCCAGGGCTTTGTCTCGGGTACCTGCGCCAGCCCGCGCCG
CAACTCTGTGCCAGCTTTTGCAATCTTTTGTTCAGCGCTGACCGCACCAAGTTAAATGTCCCTTGCAATTT
TCTTTTTTTTGTGTTGTTGTTTAAATTTTGGAGAGCTCGCGATCTTGGA²AAAGCCTCAGACGCCATCTACAGTTA
AAACGTAGGTA³ACTGCCCTCTCCCGACCCCCCCTTACACGCCCCCACCCTTTCCACCA⁴AAAAAAGGGGGTGC
AGCGCGGATTCTGGCTGCCGTGCGTGCAGCGCGGTAGACCCGTGCTTGTTCCTTTCTCTTTTGTGTTGGCTTC
TAACGCGTTGGGACTGAGTCGCGCGCGTGAGCTCCCCGAAAGACTGCACAACTACCGCGGGCTCTCCGCCCCGT
CTGCGATTCTGGAAGCCGGCCTGGGGGTGCGCTCGGGAGCCCTGCGCTGCAGCTCCGCACCTTAGCAGCCCGGTA
CTCATCCAGATCCACGCCGGGGACACACACAGAGTAACTAA⁵AGTGCGGCGATTCTGCACATCGCCGACTGCT
TTGGGGTAACAAAAAGACCCGAGTTGCC⁶TGCCGACCGAGGACCCCGGGAGCCGGGCTCGGAGCAGACGAGGTAT
CCGCGCGCGCCCA⁷TTTGGGGGCTTCTAACTCTTTCTCCACGCGACCCCTCTTCTGTCCCTCCCTCTCGCTCCC
TTTTAAATCAGTGGCACCGAGGCGCTGCAGCCGCACTCGCCAGCGACTCATCTCTCCAGCGGGTTTTTTTTTG
TTTGTCTGTGCGATCTTCACACTC⁸ATGAACATACACAGGTCTACCCCATCACAATAGCGAGATATGGGAGATC
GCGGAACAAAACCCAGGATTTGAAAGAGTTGTCTCTATAAGGTCCGCGGAGCCAGCCAGAGTTTCAGCCCGAA
CCTCGGCTCCCCGAGCCCGCCGAGACTCCGA⁹ACTTGTCTGATTGCGTTTCTGTATCGGGAAATACTTATTGTT
GGAACCTCTGGAGGGAGACCAGTTTTTCTGCGGTGCATCTGCACAGCGGAGAGGAGCTGGTGTGAAGGTGTT
TGATATCAGCTGCTACAGGAATCCCTGGCACCGTGCTTTTGCTGTCTGCTCATAGTAACATCAACCAAATCAC
TGAAATTATCCTGGGTGAGACCAAAGCCTATGTGTTCTTTGAGCGAAGCTATGGGGACATGCATTCTTCGTCCG
CACCTGCAAGAAGCTGAGAGAGGAGGAGGCAGCCAGACTGTTCTACCAGATTGCCTCGGCAGTGGCCCACTGCCA
TGACGGGGGGCTGGTGTGCGGGACCTCAAGCTGCGGAAATTCATCTTTAAGGACGAAGAGAGGACTCGGGTCAA
GCTGGAAGCCTGGAAGACGCCTACATTCTGCGGGGAGATGATGATTCCCTCTCCGACAAGCATGGCTGCCCGGC
TTACGTAAGCCCAGAGATCTTGAACACCAGTGGCAGCTACTCGGGCAAAGCAGCCGACGTGTGGAGCCTGGGGT
GATGCTGTACACCATGTTGGTGGGGCGGTACCCTTTCCATGACATTGAACCCAGCTCCCTCTTCAGCAAGATCCG
GCGTGGCCAGTTCAACATTCCAGAGACTCTGTGCCCCAAGGCCAAGTGCCTCATCCGAAGCATTCTGCGTGGGA
GCCCTCAGAGCGGCTGACCTCGCAGGAAATTTGACCATCTTTGGTTTTCTACAGATTTTAGCGTCTGAATTC
AGCATATGGTGCTAAGGAAGTGTCTGACAGCTGGTGCCGGACGTCAACATGGAAGAGAACTTGGACCTTTCTT
TAAC¹⁰TGAGCTCATGCCCCACGGAGACTTAGCAGGTTCCAGGAGTGAGCGAGGGCAGCGGAAAGGAGTTCTTCCGG
GGGACACGAATTGCCTGGCTGAGTAGCAAGAAAGACACACTCTTAAGTTTCTTGGTTTACAGACAGGAAACCTTC
AAGGAGCTGACTGACCACGTAGCATGGGGGCAAGAGGCGTGGGATGGGGATTGGGGTGAGATGGATGGGAGCCCG
CTGGAGCTTGTCTTCCCTAACATAGCCTGGGAGACCACCCCTTGCCACTTGGGCCACTTCCGCTACCCCACTTT
TCATTTTGTTC¹¹AAAATAGTTGCAGATCCTGACAGAATCAAACTCTCTGCCTCAAACACACATCTGGCATCGC
ACTGTTAGCATTTAACTTCTTGTAGGATTCAGGGAAGGAACAGTTGGCCAAGAATTTTTTTCTTTTAAACAAG
CCAACCACCTAGCTGGTAATTAATGAGGTTCACTTAAAAA¹²AAATTCGGTGCACACAGACTGACATGAAACCTG
GGTGCTACAGTAAAGAA¹³AAACAAAGTCCAGTTTGTGTCTCTTAATCGCTCACTTCAACTCATTTCTTAAATA
AACTATTTAATATCCTGGTCAGGAAATGACATGTTAATGCTTTGCTCCCTGAAGGGGAAAAAATCTGTCTTTA
ACAAGCTATTCTGTTTTGTGCAATTGGGTCCGTGGCAAGGAAGCTATTAGGAAGTCAAACGGTCCAGGATGCAT
TACCTGCTAATCCTTAGGTTAAAGGGGAAAGAAAAGGGAAGAAAGGAAAGAGAAATCCAACCTCTTTT
CATGTTTTGCTTTTGAACAATGAGGGTTTGTGTGACAGGCATTCTCTTTGCTGAGATGATAGCAATGGCCTGAG
ATTTTAGCAAGCTCCTGGAGTCTGATGCTTTTGCAGTACTCTGATCGCAACTAAACATTTGTCTTTGTTTATTA
GAAACTAGTGAAACAAAGCAGGTTGTCCACATGTATAAAATACAGGGCAGCTATTTAGTTTTCTTTACAGAGAA
TGATCCTTTTAAAGGCTTGTAAGGCCCTCTGGTTTGGACAAAACCCCTCAGTAGAGACAAGCGGGAAGGATAATTA
GCTGAAAGCTATGATGATATAAATAAAACAGCTCTCTATCCCAATACGCACCTTTGTATTTTCAAGAACTCTTC
TATTTATTAAGGAAATGTCACATTGTGATGTATTAAGCCAGTACTTCAATTACGGGTGACTTGGGATGACATA
TTACATGCTGTAGTTAACATTTATAATTCTTTTCTTGTGTTAGTATTCTGTCTCTGAAATAACCTTTTACTT

348/2682

FIGURE 323B

GGCTTTTCTAGATAGCTTTATTTGATTTTCGAGTGGCAAAATGTTTTTTATTACGGCTTTTCTATTGCTGTATGAT
ACAGAACTCTTTTGGCATAAATATTTGTGTTCCCAGTACCTCAGTTGTTTCGGATTGACTGCCTGTATATGTTTT
GTGAAATGGTCCTGTTTTTGGGTAGGTGACACGTGGACTCTAGTATGTAAATGTTACTTGAATCTGTGCTTCATA
ATAGTGTGTGGCATGTATGTGCAGACTCTTGGATGCTTTATGCCTGCGCACCAGGAGCCCTGTCTCACGTTCCC
AGGAGGGCGGCTTCACCCTTCGTAACCAGGAGACAAGGCGGCCATGGATTGCCCCTTGATTCTATTTTGCTAATG
GAAGATAGAAAGGAGAGAAGGTTTTTTTTTTTTTTTAAACATTCTGAAGATGGTGCTGTGTCAAGAAGGACCTTTT
TTTTCCCTCTCCCTATTTTTTAAAGTACCTTGGAGGAGGAGAGGTTGGTGACATGCATGGTGGGGATCTATGGC
CTCTGGTGCTTTGTCTGTATTGGTTTTAATGTTTTTGTCTCTAATCTTCAATCAATAAAATTGTGCGTATTTA
ACTAAAAAAAAAAAAAAAAA

349/2682
FIGURE 324

MNIHRSTPITIARYGRSRNKTQDFEELSSIRSAEPSQSFSNLSGSPSPPETPNLSHCVSCIGKYLLLEPLEGDHV
FRAVHLHSGEELVCKVFDISCYQESLAPCFCLSAHSNINQITEIILGETKAYVFFERSYGDMHSFVRTCKKLREE
EAARLFYQIASAVAHCHDGGLVLRDLKLRKFIFKDEERTRVKLESLEDAYILRGDDDSLSDKHGCPAYVSPEILN
TSGSYSGKAADVWSLGVMLYTMLVGRYPFHDIEPSSLFSKIRRGQFNIPETLSPKAKCLIRSILRREPSERLTSQ
EILDHPWFSTDFSVSNSAYGAKEVSDQLVPDVNMEENLDPFFN

350/2682
FIGURE 325

CGAGGTTTCGGGTCGTGGGGCGGAGGGAAGAGCGGGCGGGCGGGAGGCGCCGGCGCCAGACGCGGAGGGAAGGAGC
TACGAGTAGCCGCCGAGAGGCCGCGGAGCCAGCGACGACCGACCCAGCCGAGCCGCCGCCGCCGCCGCCA
TGGCGGCCGCCAAGGACACTCATGAGGACCATGATACTTCCACTGAGAATACAGACGAGTCCAACCATGACCCTC
AGTTTGAGCCAATAGTTTCTCTTCTGAGCAAGAAATTAACAACACTGGAAGAAGATGAAGAGGAACTTTTAAAA
TGCGGGCAAACTGTTCCGATTTGCCTCTGAGAACGATCTCCAGAATGGAAGGAGCGAGGCACTGGTGACGTCA
AGCTCCTGAAGCACAAAGGAGAAAGGGGCCATCCGCCTCCTCATGCGGAGGGACAAGACCCTGAAGATCTGTGCCA
ACCACTACATCACGCCGATGATGGAGCTGAAGCCCAACGCAGGTAGCGACCGTGCCTGGGTCTGGAACACCCACG
CTGACTTCGCCGACGAGTGCCCCAAGCCAGAGCTGCTGGCCATCCGCTTCTGAATGCTGAGAATGCACAGAAAT
TCAAAACAAAGTTTGAAGAATGCAGGAAAGAGATCGAAGAGAGAGAAAAGAAAGCAGGATCAGGCAAAAATGATC
ATGCCGAAAAGTGGCGGAAAAGCTAGAAGCTCTCTCGGTGAAGGAGGAGACCAAGGAGGATGCTGAGGAGAAGC
AAATAAATCGTCTTATTTTATTTTCTTTTCTCTCTTTCTTTCTTTTAAAAAATTTTACCCTGCCCCCTCTT
TTTCGGTTTGTTTTATTCTTTTCAATTTTACAAGGGACGTTATATAAAGAACTGAACTC

351/2682
FIGURE 326

MAAAKDTHEDHDTSTENTDESNHDPQFEPIVSLPEQEIKTLEEDDEEELFKMRAKLFRFASENDLPEWKERTGDV
KLLKHKEKGAIRLLMRRDKTLKICANHYYITPMELKPNAGSDRAWVWNTHADFADEC PKPELLAIRFLNAENAQK
FKTKFEECRKEIEEREKKAGSGKNDHAEKVAEKLEALSVKEETKEDAEKQ

352/2682
FIGURE 327

GGGGGCGTGGCCCCGAGAAGGCGGAGACAAGATGGCCGCCCATAGCGCTTGGAGGACCTAAGAGGCGGTGGCCGG
GGCCACGCCCCGGGCAGGAGGGCCGCTCTGTGCGCGCCCGCTCTATGATGCTTGGCGCGCTCCCCCGCGCGCCGC
GCTGCGGGGCGGGCGGGTCTCCGGGATTCCAAGGGCTCGGTTACGGAAGAAGCGCAGCGCCGGCTGGGGAGGGGG
CTGGATGCGCGCGCACCCGGGGGGAGGCCGCTGCTGCCCGGAGCAGGAGGAGGGGGAGAGTGGCGCGGGCGGCAG
CGCGCTGGCGGGCGACTCCGCCATAGAGCAGGGGGGCGAGGGCAGCGCGCTCGCCCCGTCCCCGGTGAGCGGCGT
GCGCAGGGAAGGCGCTCGGGGGCGGCGGCCGTGGCCGGGGCGGTGGAAGCAGGCGGGGCCGGGGCGGCGGCGTCTG
TGGCCGTGGCCGGGGCCGGGGCCGTGGCCGGGGACGGGGACGGGGCCGGGGCCGGGGCCGGGGCCGTCCCCGAG
TGGCGGCAGCGGCCCTTGGCGGCGACGGCGGCGGCTGCGCGGCGGCGGCAGCGGTGGCGGCGGCGCCCCCGGCG
GGAGCCGGTCCCTTTTCCCGTGGGGAGCGCGGGGCCGGGGCCAGGGGACCCGGGGCCACGGAGAGCGGGGAAGAG
GATGGATTGCCCGGCCCTCCCCCGGATGGAAGAAGGAGGAAGTGATCCGAAAATCTGGGCTAAGTGCTGGCAA
GAGCGATGTCTACTACTTCAGTCCAAGTGGTAAGAAGTTCAGAAGCAAGCCTCAGTTGGCAAGGTACCTGGGAAA
TACTGTTGATCTCAGCAGTTTTGACTTCAGAACTGGAAGATGATGCCTAGTAAATTACAGAAGAACAACAGAG
ACTGCGAAACGATCTCTCAATCAAAATAAGCTGCGCTGGAACACTCATCGTCTGCACCATGGCATGCGCTTTC
AAGACTCTGCTTGCTCATACGCTGTTTGCTCTGCTTGGAAATGTGCTTACCCCTTCCCTTTCATCTGGTGAACCTC
CTACTCATCCAAGACCCAGCTTCATTGTCTCCATCTCTGGGAAGCCTGCCCTGCATACTCCAGGCAGAACCAATC
CTTTCTCCATTAAGGGTAAACCAGACTTGAATACAACATTGCCAATTAGACAAAACAGCATCAATTTTCAAACAAC
CGGTAACCAAAGTCACAAATCATCTAGTAATAAAGTGAAATCAGACCCACAACGAATGAATGAACAGCCACGTC
AGCTTTTCTGGGAGAAGAGGCTACAAGGACTTAGTGATCAGATGTAACAGAACAATTATAAAAAACCATGGAAC
TACCCAAAGGTCTTCAAGGAGTTGGTCCAGGTAGCAATGATGAGACCCCTTTATCTGCTGTTGCCAGTGCTTTGC
ACACAAGCTCTGCGCCAATCACAGGGCAAGTCTCCGCTGCTGTGGAAGAAGACCCTGCTGTTTGGCTTAACACAT
CTCAACCCCTCTGCAAAGCTTTTATTGTACAGATGAAGACATCAGGAAACAGGAAGAGCGAGTACAGCAAGTAC
GCAAGAAATTGGAAGAAGCACTGATGGCAGACATCTTGTCGCGAGCTGCTGATACAGAAGAGATGGATATTGAAA
TGGACAGTGGAGATGAAGCCTAAGAATATGATCAGGTAACTTTCGACCGACTTTCCCAAGAGAAAATTCCTAGA
AATTGAACAAAAATGTTTCCACTGGCTTTTGCCTGTAAGAAAAAAATGTACCCGAGCACATAGAGCTTTTTAAT
AGCACTAACCAATGCCTTTTTAGATGTATTTTGTATGTATATCTATTATTCAAAAAATCATGTTTATTTTGTAG
TCCTAGGACTTAAAATTAGTCTTTTGTAAATATCAAGCAGGACCCTAAGATGAAGCTGAGCTTTTGTATGCCAGGTG
CAATCTACTGGAAATGTAGCACTTACGTAAACATTTGTTTCCCCCACAGTTTTAATAAGAACAGATCAGGAATT
CTAAATAAATTTCCAGTTAAAGATTATTGTGACTTCACTGTATATAAACATATTTTATACTTTATTGAAAGGG
GACACCTGTACATTCTTCCATCATCACTGTAAAGACAAATAAATGATTATATTCACAGACTGATTGGAATTCCTT
CTGTTGAAAAGCACACACAATAAAGAACCCTCGTTAGCCTTCCTCTGATTTACATTCAACTCTGATCCCTGGGC
CTTAGGTTTGACATGGAGGTGGAGGAAGATAGCGCATATATTTGCAGTATGAACATTGCTCTGGACGTTGTGA
GAATTGTGCTTTACCAGAATTCTAAGAATTTCTGCTAAATATCACCTAGCATGTGAATTTTTTTTCTTGGC
TGTGACTTGGACTTTTGATAGTCTATAAGAATAAGGCTTTTTCTTCCCTTGGGCATGAGTCAGATACACAAGGA
CCCTTCAGGTGTTACTAGAAGGCGTCCATGTTTATTGTTTTTAAAGAATGTTTGGCACTCTCTAACGTCCACTA
GCTTACTGAGTTATCAGGTGCAGGTGAGACTCTTGGCTACAGTGAGAGGCAGCTTCTAGGCAGAGTTGCTTAATG
AAAGGGTTTGTAACTTTTACAAACCATTACCTGTACCTGGCCTGGCCTCCAAAATATTAACATTCTTTTCTGT
TGAAACTCGCGAGTGTAACCTTCATACCCTGAATTTATTGATATTTAATTATGAAAAGTAGCATTACATTATT
AAACGATTTCTAAAATC

353/2682
FIGURE 328

MRAHPGGGRCCPEQEEGESAAAGGSGAGGDSAIEQGGQGSALAPSPVSGVRREGARGGGRGRGRWKQAGRGGGVCG
RGRGRGRGRGRGRGRGRGRPPSGGSGLGDDGGGCGGGGSGGGGAPRREPVPFFPSGSAGPGPRGPRATESGKRM
DCPALPPGWKKEEVIRKSGLSAGKSDVYYFSPSGKKFRSKPQLARYLGNTVDLSSFDFTGKMMPSKLQKNKQRL
RNDPLNQNKLRWNTHRPAPWHALSRLCLLIRCLLCLECAYPLPLHLVNSYSSKTQLHCLHLWEACPAYSQRQNQSF
PP

354/2682
FIGURE 329A

CGGACGCGTGGGAACGAAGCCACCCATTACGGTATGATGATGTCAAACGTGATGCTGATGCTACAGTTACAGCCC
CTGCTGGCGCAGCCTCTCTGATTCTCTCTCCCTCTCCGCGTCCAGTGTGGGCTTTTTTCAGACAAGTGCATCTCC
TAACCAGGTACATTTCAGCCGCGACCCACTCTCCGCCAGTACCCGGAGGCAGACCGCGGGAGGAGAGCTGAGGA
CAGCCGCGTGGCTTCGCCAGCAGCGGGGTGGGAGGAAGGACATTAAATACTGCAGAACTCAAGACCCCCCAGG
TCGAACCCAGACCACGATGCGCGCCCCGGGCTGCGGGCGGCTGGTGTGCCGCTGCTGCTCCTGGCCGCGGCAGC
CCTGGCCGAAGGCGACGCCAAGGGGCTCAAGGAGGGCGAGACCCCCGCAATTTTCATGGAGGACGAGCAATGGCT
GTCGTCCATCTCGCAGTACAGCGGCAAGATCAAGCATTGGAACCGCTTCCGAGACGAAGTGGAGGATGACTATAT
CAAGAGCTGGGAGGACAATCAGCAAGGAGATGAAGCCCTGGATACCACCAAGGACCCCTGCCAGAAGGTGAAGTG
CAGCCGCCACAAGGTGTGCTTGGCCAGGGCTACCAGCGGGCCATGTGATCAGTCGCAAGAAGCTGGAGCACAG
GATCAAGCAGCCGACCGTGAACTCCATGGAACAAGACTCCATCTGCAAGCCCTGCCACATGGCCAGCTTGC
CTCTGTCTGCGGCTCAGATGGCCACACTTACAGCTCTGTGTGAAGCTGGAGCAACAGGCGTGCCTGAGCAGCAA
GCAGTGGCGGTGCGATGCGAGGGCCCCCTGCCCCACGGAGCAGGCTGCCACCTCCACCGCCGATGGCAA
ACAGAGACTTGCACCGGTCAGGACCTGGCTGACCTGGGAGATCGGCTGCGGGACTGGTTCCAGCTCCTTCATGA
GAACTCCAAGCAGAATGGCTCAGCCAGCAGTGTAGCCGGCCCCGGCCAGCGGGCTGGACAAGAGCCTGGGGGCCAG
CTGCAAGGACTCCATTGGCTGGATGTTCTCCAAGCTGGACACCAGTGTGACCTCTTCCTGGACCAGACGGAGCT
GGCCGCCATCAACCTGGACAAGTACGAGGTCTGCATCCGTCCTTCTTCAACTCCTGTGACACCTACAAGGATGG
CCGGGTCTCTACTGCTGAGTGGTGTCTTCTGCTTCTGAGGGAGAAGCCCCCTGCTGGCAGAGCTGGAGCGCAT
CCAGATCCAGGAGGCCGCCAAGAAGAAGCCAGGCATCTTCATCCCGAGCTGCGACGAGGATGGCTACTACCGGAA
GATGCAGTGTGACCAGAGCAGCGGTGACTGCTGGTGTGTGGACCAGCTGGGCCTGGAGCTGACTGGCACGCGCAC
GCATGGGAGCCCCGACTGCGATGACATCGTGGGCTTCTCGGGGACTTTGGAAGCGGTGTGCGCTGGGAGGATGA
GGAGGAGAAGGAGACGGAGGAAGCAGGCGAGGAGGCCGAGGAGGAGGGCGAGGCAGGCGAGGCTGACGACGG
GGGCTACATCTGGTAGACGCCCTCAGAAGCCGGCTGCCGGGGGGGACTCAACAGCAGAGCTCTGAGCAGCAGCAG
GCAACTTCGAGAAGGATCCAGAAATGCAGTCAGAAGGACCTGCTCCACCTGGGGGGACTGGGAGTGTGAGTGT
GCAITGGCATGTGTGTGGCACAGATGGCTGGGACGGGTGACAGTGTGAGTGCATGTGTGCATGTGTGTATGT
GTGTGTGTGTGTGGCATGCGCTGACAAATGTGTCCTTGATCCACACTGCTCCTGGCAGAGTGAAGTAAACCAAAGG
CCCCCTCGGCCCTCCTTGTAGCTGTTTTCTTTCTTTGTTGTTGGTTTTTAAATACATTACACACAAATACAAA
TTGACAGGTCAAAATCCATGAAATGAGATCCCCAGCGTGTCTCCAGCCCAGCCCTGACCCCTTGGTTTTCTAC
CCTGGCTCCCTTGGTTTTCTACCCTGGCTCAACCGACCCCTGTCTGCCCTTCTCCCTCCTGCTTCTGAGGTCAAG
CTCTGGCCTGCGAGCCTGTCCCCATTGCAAAGGGGAGGGAGGGGCAGGGAGCTGTCTACCAGCTGAGGTCTCTCC
AAAAGTGGGCCGATGTGGTGTGACATCCCCACAGCCTCAGATGAGACGGGCCAGGACGCCACGCCACAGCAAGC
CCTGTCCCTTTGCCGATCCCCAAACACTAGAGAAGCTCTCTTAACCAAGGCGGAGAATGAAGGTGGTGGCGGC
AGAGGAGGAGGGCAGCAGCTGAGAGGCCAGGGACAGGGTGCCTCGCCAAGCTGTCTGAGGTCTGTCCCAGGTGGC
CCAGGTGGTGCAGGTAGAACAGGGTGAGGAGAGGGGGTGGCTCAACAGGAGGAGGCTGTGGCTGCAGAGCCTGG
AGGAGCTTTTAGGTGTTGAGATGGGGCAGCTCTGAATCCTAGACCCTGGAATAGCCTGTCCCTTTTCTCTGGGTC
TCGTGGTGGAGCCATGATCTGGGCTGCTCTCTTGGGGACACTGGGTGGTGGTTACACAGTTGACCTCTGCCTGGC
TCCCCCTTGGTGCAACTCCTGCCCTCCATCCCCCTTGCTGGGGTCCCCCTCATCCACTTGAGGGCGCTGAGGGCCA
GGAGCAGCAGGCAAGGAGCCTGGGTCTAGGCTAAGGGGGTGTGTGCCACCTCCTCCCTGACCTTAACACTCCT
GTCCTGCCCAGACCAACAGAGAGAGCTGTCCCTGAGACCCCGGAGAGAAGCAGCTGCCGAAAGCTGCAGCCTTTC
CGCACTCTGAGACCATGATCTTCTCCTGCCAGGGGAGAGCCACCCACAGGCCATGTCCAGCCCCACTTCCCTCA
GCCCCAGGGCTTCTTCTGGCCCCCTGAGGATTCCCTAGGGCTGCCCCGAGAGGGGCTTCCCCAAGCTCTGT
TTTGAAGCCTGCAATGTGGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
TCACACCTCGCTGTTCCCAACATCCCCTGAGCAGTGTGAGCTCATCTCACCAGATGAGAAGAGGCCCTGTGCAT
TTCTTTTGTGTT
GGTGGAGAATTTCTTACCAGACTTGGGGCTGTGATGCCCTTCAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
CCTGTGTGTGAACCTGGGGGCCATCCTGGTGGCTGGGAGCGTGAGGAGAGGGCCCCCTGTGTGCTGGGTGAGTGG
TGGGTGTGGGTCAATGCAGTGAAGCTCTCTGGGTGAGGCTCCCAACCTGGCAGTCCCCAGCCTCCAGCATCTG
TGAGCGTCTGTTGGACTTTACAGAAGAGCCTCATCCGCTGCCCCCTCACTCTGCCCTGGAATCAACATCTCCG
AGTCCCTTCTGGGGGAAATAGCAGAGCCCCACTTAACCTCATAAAGTGTCTCCATTCCGAGCCAGTTCTGAT

355/2682
FIGURE 329B

TGTTGAGGTGTCGCGTCGTTCCAGGTCCCCAGTCCCCCTCTTTCTCCTGTCTCTCTGTCTTACCTCCCCA
CTCCAGCCCCGGCTCAGTTCAGGGAAATGCTGTTCCATATCAGCCCTCTGCTCTCTGAGGCAGCCGCGCCTCTGA
CTCGGAGCTACTTGAAACTTCTGCTCTTGCTAGGATTGGAGTCTACCTATCTCTTCCATTGTCCCAGCTGGAGT
TCTGGAACCTTTCTCCTCGGGGTGGGGGTGGGGGTTGTTAAGGATGCTGGGGGGCCTGGGGAAGGAAGGAGTTCA
GAGGAAGGGTGTCCTCTGCTCTTGATGTCAACCCTCCGCTCCTGGGACACGTGCTCTCTGTCTCTGGGTCTT
CTGGCTGTGCACGTTTGTTGTGTCCTTGTAATAIGTTTTAGGAAGAAAGCAAAAGGGACTGAACTAGCCTCTGGT
AGGATTGCAGGGGTCCAGCCTTGCCCTGTTTCCGAAGCCCCACACTGCCTTTGCCCCACTGAGACTGGTCCCCCT
CAAAAGGTAGACAAAACAGCAGCTCCCTGTGGAGCTGAAGGGCGGCCTCAAAGTGGCTTTTTGTTAGACAAGGTT
AAGGTTTCCTCATGAGCAAGGTTGCAGATCGGTCCTTCCTCAGCTCCTTGATTTGTGACCTTGACCAAGGGGCCT
GCCACCCAGCCCCCTCCAGTGCCCTCTCCTCGATGCCTCGCTCCTTCCTGCCCCACTCCCCCTGGCTTAGGCAGGT
AGGGGAATTAGGGCCATGCTGGAAGAAGCTTAACCATGTGTTCAAAGAACGTTTCTTGCTTGCTTGGTCTCTGGA
ACTCCCCCTTGGCTGCCCCAGGCCTCCTTGCCCCATGGGTGCTGGGGGAGGTGGATGTCAGATCTGGTAGGTTGCA
GCAGAGAAAATAAATGTGCCTTGAGAGACCACTCAGAGAGGGTCCAAGGGTGATGGAGAAGGAAGCATGGCCTGG
GAGCTTGAAGGGAGGGGTGGTGGGTGGCGGCATCTTGACTGCCCCCTGTTGTCCCACACGTGGGGGGTGGTCAC
CCCCCTTCACTCCAGCCCGCCTGCCTTCAGCCTTCCATGAGCTTACCTGCTTCCAACCTTCACTTTGGAGGGGGT
GGGGTCCGTTGGCATCAACACGGGGACCCTCTGCTTACCAGGAGCCGAGCCCTCAGCCCCCTGGGGAGAACAAT
GGCTGAGCTTTGATACCTGGGGTCGTGAGAGGCTGCGGGCTGGCGGCAGTCCCAGGGGAGAGACACCACAGAAG
GAGACCCAGACATCCCGAGGAAGTTCCCAGCAGAGCAAAGTCTTTCCAGCCTGAAGCCTGCTTAAACTGTGTGA
TGTGCAATAACTGAGCTTAGAGTTAGGAATTGTGTTCAAGTGCTTGGATTTCGCTCTGTAGATTTAACTGCTGAA
ATTGTATCTCTCAGTAATTTTAGATGTCTTTTAAAAAATTGAAAAACAAAGTGTAGACTGTGTGCGTGTGCGTT
GATGGGCACTCAAGAGTCCCGTGAGTCATCCAGCCCTGCCTTTCCCTGCGCCCCCATCTCTCACGTCCCGCCC
TGCCTCCACTTGGGGACCCTGCCTCGTGTGCTTTTATCTGCCTATTACTCAGCCTAAGGAAACAAGTACACTCC
ACACATGCATAAAGGAAATCAAATGTTATTTTAAAGAAATGGAAAATAAAACTTTATAAACACC

356/2682
FIGURE 330

MRAPGCCRLVLPLLLLAAAALAEGDAKGLKEGETPGNFMEDEQWLSSISQYSGKIKHWNFRDEVEDDYIKSWED
NQQGDEALDITKDPCKVKCSRHKVCIAQGYQAMCISRKLEHRIKQPTVKLHGNKDSICKPCHMAQLASVCGS
DGHTYSSVCKLEQQACLSSKQLAVRCEGPCPCPTEQAATSTADGKPETCTGQDLADLGDRLRDWFQLLHENSQON
GSASSVAGPASGLDKSLGASCKDSIGWMFSKLDTSADLFLDQTELAAINLDKYEVCIRPFFNSCDTYKDGRVSTA
EWCFCFWREKPPCLAELERIQIQEAAKKKPGIFIPSCDEDGYRKMQCDQSSGDCWCVDQLGLELTGTRTHGSPD
CDDIVGFSGDFGSGVGWEDEEEKETEEAGEEAEEEGEAGEADDGGYIW

357/2682
FIGURE 331

TCTTGACTCACGCCCTTCGCCGTAGCATCTTTCGCAGCGGACCGAAGAGAAGAAAAGTAGGCCAGAGCCGAACTCT
CTTCCTGCCAAGATGTCTATTGGTGTGCCGATTAAAGTACTGCATGAGGCCGAGGGCCACATTGTGACATGTGAG
ACGAACACCGGTGAGGTATATCGGGGGAAGCTCATTGAAGCAGAGGACAACATGAACTGCCAGATGTCCAACATC
ACAGTCACATACAGAGATGGCCGAGTGGCACAGCTGGAGCAGGTATACATCCGTGGCAGCAAAATCCGCTTTCTG
ATTTTGCCTGACATGCTGAAGAACGCACCCATGTTAAAGAGCATGAAAAATAAAAAACCAAGGCTCAGGGGCTGGC
CGAGGAAAAGCTGCCATTCTCAAGGCCCAAGTGGCCGCAAGAGGAAGAGGACGTGGAATGGGACGTGGAAACATC
TTTCAAAGCGAAGATTAATTTTCTAAGTTGAACAGAACITTTGTCCTTTTTTCTTTTCAGGTTATCTGAGTTCAITG
GAGTGGGTGCTTGTGCATATATCTAGGTATCTTTTGCCATCTTCTCTTTAGATCAGGGGAAATGTTTAAGCTAA
ATAAATCTGGGGGGTTTTTGTTCG

358/2682
FIGURE 332

MSIGVPIKVLHEAEGHIVTCETNTGEVYRGKLEAEDNMNCQMSNITVTYRDGRVAQLEQVYIRGSKIRFLILPD
MLKNAPMLKSMKNKNQSGAGRGKAAILKAQVAARGRGRGMGRGNIFQRR

359/2682
FIGURE 333

CCTGCGTGGCTGGGCTGCTCGGGTTAGATCGTCAGGAAAAGCCTAAAGATTAGACTGTAAGAAAAGAAAATAGAA
GCCATGTTTTCGAAGACCTGTATTACAGGTACTTTCGTCAGTTTGTAAGACATGAGTCCGAAACAACCTACCAGTTTG
GTTCTTGAAAGATCCCTGAATCGTGTGCACTTACTTGGGCGAGTGGGTCAGGACCCTGTCTTGAGACAGGTGGAA
GGAAAAATCCAGTCACAATATTTTCTCTAGCAACTAATGAGATGTGGCGATCAGGGGATAGTGAAGTTTACCAA
CTGGGTGATGTCAGTCAAAGACAACATGGCACAGAATATCAGTATTCCGGCCAGGCCTCAGAGACGTGGCATAT
CAATATGTGAAAAGGGGTCTCGAATTTATTTGGAAGGGAAAATAGACTATGGTGAATACATGGATAAAAATAAT
GTGAGGCGACAAGCAACAACAATCATAGCTGATAATATTATATTTCTGAGTGACCAGACGAAAGAGAAGGAGTAG

AAAGGATGATTCTTCTTTGGCCATCATTGTTGACAGTCTCATTTCGAAGTCATGTATAATCTTTATGGCTTCCAA
GGACAAGAATTAAAATACTCTTTTACGT

360/2682

FIGURE 334

MFRRPVLQVLRFVRHESETTSLVLERSLNRVHLLGRVGQDPVLRQVEGKNPVTIFSLATNEMWRSGDSEVYQL
GDVSQKITWHRISVFRPGLRDVAYQYVKKGSRIYLEGKIDYGEYMDKNNVRRQATTIIADNIIFLSDQTKEKE

361/2682
FIGURE 335

CCGCCGTAGCGCGTCTTGGGTCTCCCGCTGCCGCTGCTGCCGCCGCCGCTCGGGTCGTGGAGCCAGGAGCGAC
GTCACCGCCATGGCAGGCATCAAAGCTTTGATTAGTTTGTCTTTGGAGGAGCAATCGGACTGATGTTTTTGATG
CTTGGATGTGCCCTTCCAATATACAACAAATACTGGCCCTCTTTGTTCTATTTTTTTACATCCTTTACCTATT
CCATACTGCATAGCAAGAAGATTAGTGGATGATACAGATGCTATGAGTAACGCTTGTAAGGAACCTTGCCATCTTT
CTTACAACGGGCATTGTCTGTGTCAGCTTTTGGACTCCCTATTGTATTTGCCAGAGCACATCTGATTGAGTGGGGA
GCTTGTGCACTTGTCTCACAGGAAACACAGTCATCTTTGCAACTATACTAGGCTTTTTCTTGGTCTTTGGAAGC
AAGGACGACTTCAGCTGGCAGCAGTGGTGAAGAAATTACTGAACTATTGTCAAATGGACTTCCTGTCTATTGT
TGGCAATTCACGCACACAGGAGATGGGGCAGTTAATGCTGAATGGTATAGCAAGCCTCTTGGGGGTATTTAGGT
GCTCCCTTCTCACITTTATTGTAAGCATACTATTTTACAGAGACTTGCTGAAGGATTAAGGATTTTCTCTTT
TGGAAAGCTTGACTGATTTACACITTAATCTATAGTATGCTTTTTTGTGGTGTCTGCTGAATTTAAATATTTATG
TGTTTTTCTGTTAGGTGATTTTTTTTTTGAATCAATATGCAATGTTAAACACTTTTTTAATGTAATCATTGCA
TTGGTTAGGAATTCAGAATTCGCCCGGCTCTAATTACTGGTCAAGTACATCTTTTCTCTTAAATATTTAGCCTC
CATTATTACAAAAAATTATAAAAAATAAGTTTTTTCAGTCAGTCAGGATGACATCACTCCCAATGTTATGCAGACATA
CAGACGGTTGGCATACTTATAGACTGTATACTCAGTGCAAATATAGCTGCATTTATACCTCAGAGGGGCCAAGT
GTTAATGCCCATGCCCTCCGTTAAGGGTTGTTGGTTTTACTGGTAGACAGATGTTTTGTGGATTGAAAATTATTT
TATGGAATTGCTACAGAGGAGTGCTTTTCTCTCAATTGTTAGAAGAATTTATGTTAACTTTAAGGTAAGGGTG
TAAAAACATTTTTGAGATAAGGTTTTTATTATGTTTATTATTGTTAGAGTGAGTTGCAATGTGGGAAGAAATGA
CATTGAAATTCAGTTTTTGAATCCTGTTTCTATTTATAAGTGAAATTTGTGATCTCCTATCAACCTTTTCATGTT
TTACCTGTATAAATGGACATACATGAACCACTACTGATGAGGGACAGTTGTATGTTTGCATCATATATGCCAG
AAAACCTTCTCTGCTTCTCTCTTTTGACTTATTTGGTATGTTGTATATATTACATAAAATACTTTTCAAATAT
AGTTTTAATACACTTAGAAGTGTTTACTTACCTGGAAATAATTGCTATGCCGTACATTACAGAGTGCCCCCTCCC
CTGCAAGGCCCTTGCCATGATTAACAAGTAACCTGTTAGTCTTACAGATAATTCATGCATTAACAGTTTAAGATTT
AGACCATGGTAATAGTAGTTCTTATTCTCTAAGGTTATATCATATGTAATTTAAAAGTATTTTTAAGCCAAGTTT
CCTGTATACCTCTGAACTGTTTTGATTTTTGAGTTCATCATGATAGATCTGCTGTTTCTTATAAAAGGCATTTGT
TGTGTGAGTTAATGCAAAGTAGCCAAGTCCAGCTATATAGCAGCTTCAGAAACATACCTGACCAAAAAATTCCCA
GTAACCAGGCATGATCAATTTATAGTGGTCGTTTACATCTAATAATTATCAGGACTTTTTTTCAGGAGTGGGTAT
AAAAACATTCAAGTTGGTCTGACAGTATTTTGTAAAGGATATTTGTTGTATGTTTATTTCAGTATACTTACATAA
AAATTATTTGCGCATCAGCCAAAACCTCAGTAATCATGACAGCTGTCTGTTGTTTATGAAGTTTATTTCTCAAGA
AAATGGGAATAAAATTTGGGATTTGTTTCAGCTTTTTTACTAAAGATGCCTAAAGCCACAGGTTTTATTGCCTAACT
TAAGCCATGACTTTTAGATATGAGATGACGGGAAGCAGGACGAAATATCGGCGTGTGGCTGGAGCCTTCCCACTG
GAGGCTGAAAGTGGCTTGTGGTATTATAATGTTTCAGATTTCAAGAGGAAGGTGCAGGTACACATGAGTTAGAGAG
CTGGTGAGACAGTTGGGAACCTTTGTGCTTGTGATCTACTGGACTTTTTTTTTGCAGGAAGTGCATTCTCTGGT
CCTTCCCTATTTTCTGTTCTGGATGTCAGTGCAGTGCAGTGTCTACTGTTTTATCCACTTGGCCACAGACTTTTTTC
TAACAGCTGCGTATTATTTCTATATACTAATTGCATTGGCAGCATTGTGTCTTTGACCTTGTATACTAGCTTGAC
ATAGTGTCTGTCTGATTTCTAGGCTAGTTACTTGAGATATGAATTTCCATAGAATATGCACTGATACAACATT
ACCATTCTTCTATGGAAGAAAACCTTTGATGATGAAACAATAAGATTTTAAATATCAAAAAAAAAAAAAAAAAA

A.

362/2682
FIGURE 336

MAGIKALISLSFGGAIGLMFLMLGCALPIYNKYWPLFVLFFYILSPIPYCIARRLVDDTDAMSNACKELAIFLTT
GIVVSAFGLPIVFARAHLEWGACALVLTGNTVIFATILGFFLVFGSKDDFSWQQW

363/2682
FIGURE 337

CTATCCGCGCGCTCGCCGCCAGTCCTGTCGCTGACGGGAGGATCTGAAGCCGGCCGCGAGGTCAAAGAGTAAA
ATGAAGTACATTCTGGTTACTGGTGGTGTATATCAGGAATTGGAAAAGGAATCATTGCCAGCAGTGTGGGCACA
ATACTCAAGTCATGTGGTTTACATGIAACTTCAATCAAAATTGACCCCTACATTAACATTGATGCAGGAACATT
TCTCCTTATGAGCATGGTGAGGTTTTTGTGCTGGATGATGGTGGGGAAGTAGACCTTGACCTGGGTAACATGAG
CGGTTCCCTTGACATCCGCCTCACCAAGGACAATAATCTGACCCTGGAAGATATACCAGTATGTCATTAACAAG
GAACGGAAGGAGATTACTTGGGGAAAAGTGTCCAAGTTGTCCCTCATATCACAGATGCAATCCAGGAGTGGGTG
ATGAGACAGGCGTTAATACCTGTAGATGAAGATGGCCTGGAACCTCAAGTGTGTGTTATTGAGCTTGGTGGAAAC
GTGGGGGACATAGAAAGCATGCCCTTTATTGAGGCCTTCCGTCAGTTCCAATTCAAGGTCAAAGAGAGAACTTT
TGTAACATCCACGTCAGTCTAGTTCCCCAGCCAAGTTCAACAGGGGAACAGAAGACTAAACCTACCCAGAATAGT
GTTCCGGGAACCTTAGAGGACTTGGGCTTTCCCCAGATCTGGTTGTATGCAGGTGCTCAAATCCACTTGACACATCA
GTGAAGGAGAAAATATCAATGTTCTGCCATGTTGAGCCTGAACAAGTGATCTGTGTCCACGATGTCTCATCCATC
TACCGAGTCCCCCTTGTGTTAGAGGAGCAAGGGGTTGTAGATTATTTTCTTGAAGACTTGACCTTCCTATTGAG
AGGCCCAAGAAAAATGCTGATGAAATGGAAAGAGATGGCTGACAGATATGATCGCTTGCTGGAGACCTGCTCT
ATTGCCCTTGTGGCGAAATACACCGAGTTCTCAGACTCCTATGCCCTCTGTCTTAAGGCTCTGGAGCATTCTGCA
CTGGCCATCAACCCAAATGGAATCAAGTACATAGATTCTGCGGACTTGGAGCCCATCACCTCGCAAGAAGAG
CCCGTGCCTACACGAAGCTTGGCAGAAGCTCTGTAGTGCTCATGGAGTGCTGGTTCCAGGAGGATTTGGTGT
CGAGGAACAGAAGGAAAAATCCAAGCAATTGCCCTGGGCTCGGAATCAGAAAAAGCCTTTTTTGGGCGTGTGCTTA
GGGATGCAGTTGGCAGTGGTTGAATTCTCAAGAAACGTGCTGGGATGGCAAGATGCCAATTCTACAGAGTTTGAC
CCTACGACAGTCATCCCGTGGTTCGTAGACATGCCAGAACACACCCAGGGCAGATGGGCGGAACCATGAGGCTG
GGCAAGAGGAGAACCCTGTTCCAGACCAAGAAGTCAAGTCAAGGAAAGTGTGTTGGAAGAACAAGGCTTGAAGTTGTT
GGCCAAGATGTTGAAGGAGAGAGAATGGAATTTGGGAGTTAGAAGATCATCCCTTTTTTGTGGGGTTCAGTAC
CACCTGAGTTCCCTGTCCAGGCCTATCAAGCCCTCCCCACCATACTTTGGCCTCCTCTGGCCTCTGTGGGGCGG
CTCTCACATTACCTCCAGAAAGGCTGCAGGCTCTCACCCAGGGACACCTATAGTGACAGGAGTGAAGCAGCTCC
CCTGACTCTGAAATCACCGAAGTGAAGTTTCCATCAATAAATCATGACTGATCTTGTAGCGGATGATTCTTCAAG
AGACCCTTCAAACCTGGGTAGAGTTTACAGCTCTGACTTTACACTCGGCTTTGGAGACTTTCTTTAAATTATGTT
TTTATTAAGATTATTTTATTATGCGGAAAGGTATTTGGGAAACTTGTCACCTGTCATGTCCCATCACGTGTACTGG
CTCCTCTGTGGTGTCTGCCTGTTGCGTGACACTCTCCTTGAGTTGCGGCAGAACATCGCGATGGGA
ACCGATGGTGGGTGGGGCTGCAGATGTCCCATCGGTACCTTGTCTCAACTACCTCGCATCATTGCAGATCG
TAGCGCGTTGCCGTGCTGCTTTCCCTTGGATACCTAGACCGTTATAAAGTGTGCCACATGGACTTACCGAGCATGG
AGAGAGGATTTTAGCTAGGATTTGAACACTTGGTGTGGGAACCTCAGGGTATTGCTTGCCACTAAGCCATGAAA
CCAGAGACAAAATCTCTATACTGCCCTGAGTTGGGGGGAATTCTCAGTGCCAACTGTGGCTGGTCTCTATTCAA
GGGACGGTCAAGTTGGTGTCAACATGAAACACCAAGATGTCTGTCTCTGAAGCGTGATTTTAAATCCCCATGCC
TGTGCGTGCGCTTCTTATTCTAGGGCTGGGAAACACTCCTTGATCAAGGGGTCACTTACAGAACAAGAAATCT
TTTGGGGGAACTTCTCTAAAACCTCTCATATATAGACAGCTTTGACTGGAGGGTCCATTTTCTTCCAGGAT
GGTGTACTGCAAGTTGAAGGGCAATATGAAGTTACTTTCTTAATGTGACCTAGCAATAGGCATAGCTACGTGGCA
CTATATTCTGGCCAGACTCGATGTTGACTCTAACTTAAGAAATAAATCAGTAAGGCAG

364/2682

FIGURE 338

MKYILVTGGVISGIGKGIIASSVGTILKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFLDDGGEVDLDLGNYE
RFLDIRLTKDNNLTGKIYQYVINKERKGDYLGKTVQVPHITDAIQEWVMRQALIPVDEDGLEPQVCVIELGGT
VGDIESMPFIEAFRQFQFKVKRENFNCNIHVSLVPQPSSTGEQTKPTQNSVRELRLGLSPDLVVCRCNSNPLDTS
VKEKISMFCHVEPEQVICVHDVSSIYRVPLLEEQGVVDYFLRRLDLP IERQPRKMLMKWKEMADRYDRLLETCS
IALVAKYTEFSDSYASVIKALEHSALAINHKLEIKYIDSADLEPITSQEEPVRVYHEAWQKLC SAHGVLVPGGFGV
RGTEGKIQAIAWARNQKKPFLGVCLGMLAVVEFSRNVLGWQDANSTEFDETTSHPVVVDMP EHNPGQMGGTMRL
GKRRTLFQTKNSVMRKLYGDADYLEERHRRHFEVNPVWKKCLEEQGLKFVGQDVEGERMEI VELEDHPFFVG VQY
HPEFLSRPIKPSPPYFGLLLASVGRLSHYLQKGCRLSPROTYSDRSGSSSPDSEITELKFPSINH D

365/2682
FIGURE 339

CCTGGACTAGCCGGGTTGTATTTGGAAACGCGGAGTGAGTTTTTCCGTGCTGTGTAGGGGCTAACAATGGGACACC
CAGAAGGACGTTCAACCTCCAAAGCAGCAACCAATGATATATATCTGTGGAGAGTGTACACAGAAAATGAAATA
AAATCTAGGGATCCAATCAGATGCAGAGAATGTGGATACAGAATAATGTACAAGAAAAGGACTAAAAGATTGGTC
GTTTTTGATGCTCGATGAATGCTGGGAATTCAGAGGAATGTCTTCACCTTATACTTGGATTGCTCTCTTCCCATT
TCTGATTGTTGTATAGCTTTCGATTTTGCTTACAGTAGTTCCCCCTTATCTTCGGGAGATACATTCCAAGGCCCC
CAGTGAACCTCCTGAAACCTCAAACAGTACCAAACCTTTATACACTGTTTTTTCCATATATATATACCTATGATAA
AGTATAATGTATAAAATTAAGCATAGCAAGAGATTAATAATAATGTAATAGAACAATGATAACATACTATAATAAA
AGTTATGTGAATGTG

366/2682
FIGURE 340

MDTQKDVQPPKQQPMIYICGECHTENEIKSRDPIRCRECGYRIMYKKRTKRLVVFAR

367/2682
FIGURE 341

CTTCGGTCCTGCTGTAGTGCCTTCTGCGCCAGGCCCGGTTCAATCAGCGGCCACAACCTGTCTAGGGCTCAGACAC
CACCAGCCAATGAGGGAGGGCACGTGGAGCCGCGTCTGGGCTCGCGGCTCCTGACCAATGCGGAAGTGGCATGTG
GGAGGGCGCCGGGGTTCCCCCGCCAATGGGGAGCTACGGCGCGCGGCCGGGACTTGGAGGCGGTGCGGCGCGGC
GGGTGCGGTTTTCAGTCGGTCCGGCGCGGCAGCGGAGGAGGAGGAGGAGGAGGATGAGGAGGATGAGGAGGATG
TGGGCCACGCAGGGGCTGGCGGTGCGCGTGGCTCTGAGCGTGTCTGCCGGGCAGCCGGGCGTGGCGCGGGCGAC
TGCGAAGTTTGTATTTCTTATCTGGAAGATTTTACCAGGACCTCAAAGACAGAGATGTCACATTCTCACCAGCC
ACTATTGAAAACGAACCTTATAAAGTTCTGCCGGGAAGCAAGAGGCAAAGAGAATCGGTTGTGCTACTATATCGGG
GCCACAGATGATGCAGCCACCAAAATCATCAATGAGGTATCAAAGCCTCTGGCCCCACCACATCCCTGTGGAGAAG
ATCTGTGAGAAGCTTAAGAAGAAGGACAGCCAGATATGTGAGCTTAAGTATGACAAGCAGATCGACCTGAGCACA
GTGGACCTGAAGAAGCTCCGAGTTAAAGAGCTGAAGAAGATTCTGGATGACTGGGGGGAGACATGCAAAGGCTGT
GCAGAAAAGTCTGACTACATCCGGAAGATAAATGAACTGATGCCTAAATATGCCCCAAGGCAGCCAGTGCACCG
ACCGATTTGTAGTCTGCTCAATCTCTGTTGCACCTGAGGGGGAAAAAACAGTTCAACTGCTTACTCCCAAAACAG
CCTTTTTGTAATTTATTTTTTAAGTGGGCTCCTGACAATACTGTATCAGATGTGAAGCCTGGAGCTTTCCTGATG
ATGCTGGCCCTACAGTACCCCATGAGGGGATTCCCTTCCTTCTGTTGCTGGTGTACTCTAGGACTTCAAAGTGT
GTCTGGGATTTTTTTATTAAAGAAAAAAATTTCTAGCTGTCAAAAAAAAAA

368/2682
FIGURE 342

MGKWHVGGRRGSPRQWGATARGRDLEAVRRGGCGSVGRRRQRRRRRRRRMRMRMRMWATQGLAVRVALSVLPGR
ALRPGDCEVCISYLGRFYQDLKDRDVTFSPTIENELIKFCREARGKENRLCYIIGATDDAATKIINEVSKPLAH
HIPVEKICEKLKKKDSQICELKYDKQIDLSTVDLKKLRVKELKKILDDWGETCKGCAEKSDYIRKINELMPKYAP
KAASAPTDL

369/2682
FIGURE 343

CGAGCTGGAGAGGTGGTCGGAGAAGTAGGAACCTCCTGCCGGGCTCGTGGCGGCTTCTGTCCGCTCCGCGGAGGG
AAGCGCCTTCCCCACAGGACATCAATGCAAGCTTGAATAAGAAAAACAAATTCTTCCTCCTAAGCCATGGCATAT
CAGTTATACAGAAATACTACTTTGGGAAACAGTCTTCAGGAGAGCCTAGATGAGCTCATACAGTCTCAACAGATC
ACCCCCCAACTTGCCCTTCAAGTTCTACTTCAGTTTGATAAGGCTATAAATGCAGCACTGGCTCAGAGGGTCAGG
AACAGAGTCAATTTAGGGGCTCTCTAAATACGTACAGATTCTGCGATAATGTGTGGACTTTTGTACTGAATGAT
GTTGAATTCAGAGAGGTGACAGAACTTATTAAAGTGGATAAAGTGAAAATTGTAGCCTGTGATGGTAAAAATACT
GGCTCCAATACTACAGAATGAATAGAAAAAATATGACTTTTTTACACCATCTTCTGTTATTGCTTTTTGAAG
AGAAGCATAGAAGAGACTTTTTATTATTCTAGAAATTGCAGAAATGACTACACTGTGCTATACCAGAGAATTCCA
GTAGAAAGAACTTGTAAGTCTGTAGCCTCTTACATCACCTTTATTATACAGCATGAAAAACCATAACTTTTTTT
TAAGGACAAAAGTTGTTGCCCTTCCTAAGAACCTTCTTTAATAAACTCATTTTAAAACTCTG

370/2682
FIGURE 344

MAYQLYRNTTLGNSLQESLDELIQSQQITPQLALQVLLQFDKAINAALAQRVRNRVNFGRSLNTYRFCDNVWTFV
LNDVEFREVTELIKVDKVKIVACDGKNTGSNTTE

371/2682
FIGURE 345

GAATTCCCCCCCCCCCCCAGTGCTCCGCGCGCTCTTGACGTCCGGAGCCCCTGGAGTAGGCGCTTCCGGCCATT
CATACTGCAGTCGGTCAGTGTTTCGGTTGAAGGATTCTGTGTGCTGTCGGACCCAGAGGGTGACGGCGCCGCTAGG
ATGAAGCTCGTGAGATTTTTGATGAAATTGAGTCATGAACTGTAACCATTGAATTGAAGAACGGAACACAGGTC
CATGGAACAATCACAGGTGTGGATGTCAGCATGAATACACATCTTAAAGCTGTGAAAATGACCCTGAAGAACAGA
GAACCTGTACAGCTGGAAACGCTGAGTATTCGAGGAAATAACATTTCGGTATTTTATTCTACCAGACAGTTTACCT
CTGGATACACTACTTGTGGATGTTGAACCTAAGGTGAAATCTAAGAAAAGGGAAGCTGTTGCAGGAAGAGGCAGA
GGAAGAGGAAGAGGAAGAGGACGTGGCCGTGGCAGAGGAAGAGGGGGTCTAGGCGATAATGTCTCTCAAGATTT
CAAAGTCATATGAGATTTGGGATATTTTTGTACAGGTTGTGTTTGTATGTCAGTTTTTAATAAACATAAATG
TGGGACAGAGCTGTCTATTTAGTATATCAAAGTTTTAGTAGTTTCTCCACATTCACGAAATTACCACAGTGAGA
GCTAAGCATTTCTACTGGGCAGTTTCAATTTTAGTTGATCAGGTTTTAAGTTTTGAAGTAAATTTTTCTTTTT
CTTTTTATGATGAATAAGGTTAAATAAAAGCCTTAGACAAATTAAATTTGGCAGAGTTTAATTGAGCAAAGGAC
AATTCACAAATCAGGTAGCCCCTGAACCATAATAGGCTCAGAGGCTTCAGCCCAGCTGCATAGTTGAAGATTTAT
GGACAGAAGGAAAGTGATGTATGGAAAATGGAAGTGAGATACAGCAACAGCCGATTAGTTACAGTTCAGCGTTT
GCCTTATTTGAATATGGTTTGAACAGTTTCGCTGTCTTTGGTTGGCTGAAACTTAGTGATTGCCACAAGAGTAGGG
TACCGTCTGTTTACACGTCCAGTTAGGCTACAGTTCTATGTACTGAGAAACCTTTAAGCTGAAGTTGAGATATGT
AAAGAGACTTTAGGCTAAACTTAACAATATATATAGGAATATATCCCTTCTACTTCACATGCACTGAATATGCAT
TTTATTGCTTTACTCTTCATTCGTGGCACCTACCCACAGGGGAAGTAAGAAGTTTGTGTTTGGTATTTTCGGAAAC
TAAAGTCCCTATGGGATGGGGTCTAGAATTGATTCTCTTTCTGAGTTTTACTCCACGGAGTCTTAGGTACCTG
GTAAAAAGTTGTCTTCTAAATTAAGGGTCAATTGCTTTGTTGTCTAGCTGCTAATGTCTTACTTTTGTCTTTTG
CTTTTTAATCAGTTCTTAATAGGATATAGTTTTATGTTTTCCAAGTTATAACTTGGAGTTAATGGTCACTAGATT
ATCAGTTATGAGCAGTGTTAAAAATCTCCTATTAATGTGTAATGTACCTGTCAGTGCCTCCTTTATTAAGGGGTTT
TTTGAGAATAAAAGAGAAAAGACCTACTTTATTTGACAGCAAAAAAAAAAAGGAATTC

372/2682
FIGURE 346

MKLVRFLMKLSHETVTIELKNGTQVHGTITGVDVSMNTHLKAVKMTLKNREPQLETLSIRGNNIRYFILPDSL
LDILLVDVEPKVSKKREAVAGRGRGRGRGRGRGRGRGRGGPRR

373/2682
FIGURE 347

GAGTGGCTGTTGAGCGGCGCCGCGGGAGTTCCGCAGGTTTCCCGTGTTCGCAGCGGAGCCGGAGGCCAGCTGAAC
CCGCGCGTGGGATCCCGGATAGGAGGAGGAGGGGACCCATAGGACGCGTTAACTGGACCTGGAAAACAAAGTGA
AGAAGATGGGCTTAGGTCACGAGCAAGGATTTGGAGCCCTTGTTTAAATGCAAAGAAAAATGTGAAGGATTTCG
AACTGCACCTTCTGGAGAAAAATATGTCGTAAC TGCAAGTGTGGCCAAGAAGAGCATGATGTCCTCTTGAGCAATG
AAGAGGATCGAAAAGTGGGAAAACTTTTGAAGACACCAAGTATACCACTCTGATTGCAAAACTAAAGTCAGATG
GAATTTCCCATGTATAAACGCAATGTTATGATATTGACGAATCCAGTTGCTGCCAAGAAGATGTCTCCATCAATA
CAGTTACCTATGAGTGGGCTCCTCCTGTCCAGAATCAAGCATTGGCCAGGCAGTACATGCAGATGCTACCCAAGG
AAAAGCAGCCAGTAGCAGGCTCAGAGGGGGCACAGTACCGGAAGAAGCAGCTGGCAAAGCAGCTCCCTGCACATG
ACCAGGACCCCTTCAAAGTGCCATGAGTTGTCTCCAGAGAGGTGAAGGAGATGGAGCAGTTTGTGAAGAAATATA
AGAGCGAAGCTCTGGGAGTAGGAGATGTCAAACCTTCCCTGTGAGATGGATGCCCAAGGCCCAACAAATGAACA
TTCTTGGAGGGGATAGAAGCACCCAGCAGTGGGGGCCATGGAGGACAAATCTGCTGAGCACAAAAGAACTC
AATATTCTGTCTATTGTGCAAACTGAGTATGAAAGAAGGTGACCCAGCCATCTATGCCGAAAGGGCTGGCTATG
ATAAAGTGTGGCACCAGCTTGTTTTGTCTGCAGCACCTGCCATGAACCTCTGGTTGACATGATTTATTTTTGGA
AGAATGAGAAGCTATACTGTGGCAGACATTACTGTGACAGCGAGAAACCCCGATGTGCTGGCTGTGACGAGCTGA
TATTCAGCAATGAGTATACCCAGGCAGAAAACCAGAATTGGCACCTGAAACACTTCTGCTGCTTTGACTGTGATA
GCATTCTAGCTGGGAGATATACGTGATGGTCAATGACAAGCCCGTGTGCAAGCCCTGCTATGTGAAGAATCACG
CTGTGGTGTGTCAAGGATGCCACAATGCCATCGACCCAGAAGTGCAGCGGGTGACCTATAACAATTTAGCTGGC
ATGCATCCACAGAGTGCTTCTGTGCTCCTGCTGCAGCAATGCCTCATTGGGCAGAAGTTTATGCCAGTAGAAG
GGATGGTTTTCTGTTTCAGTGAATGTAAGAAGAGGATGTCTTAGGAGGAGGGCACCCAGAAGTATCGAGCCATAG
CTATCCAAAGTGGTCTGCATTTCTACTGTAAATGCAATTTGAAAAAATAAAACGCAAAAAAGAACTGTAAA
GGAAACCAAGAGATTTTGTAAATTTTTTGGCCATTTTTTCTTCATCAATTTTTTTTCGGTCTCAACTTTTAAA
CTTGGTTTAAAGCATTTGATTTGTAAACAGTAAATAATTGATCTTTCCATAGCTTTTCAAATGTGAAATCATT
TTGGAAGCTTGGATCTCATTAAACTTCATGTCCTATTCCATTGTGCCACACACTTAAAAGTTAGTGTACTGAA
TGGAAGATGAGCATTCCTAGTTCTACACTTCTTTTTTCCCTCATGTGTAAATGAAAAGAAACTAAATTTG
CCCTAATACCAAGGGCGCTACGTTTATTGCCTCGTCTTATTCAGTACCTTTGTAATGATACACAGTGAATTCTT
TTTGACAAAGAGAAATGCAGTGTAGTATGCAGAGCTGCTGTTTTAATGCCCTATGCATTTACTCTTCTCTGATTT
AGGCAGAGGTGGCATTCTTTATTGCATTCTCTATTTTTTAAATGTACCCTACCTTCAGTATTCTCTTTGTAA
GTTGGTGAAGTGCATCTGTGGCCTTGAATATTTTATTATCACATGTGGCATAACAGTATCCACACTTTTAGTTC
TTTATTTTTTTTTTTTATTTTGTAGCAATTCCTGCTCAGCCTCCCAAATAGCTGGGATTACAGGTGCATGCCA
CCACACCCAGCTAATTTTGTATTTTGTAGTAGAGACAGGTTTTTACCATGTTAGCCAGGCTGGTCTCAAACCTCT
GACCTCAGATGATCCGCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGGGAGCCACCATGCCTGACCC
ACACACTTTTACTTGTATAGATGATTTTTGGCTTGGACATAAAAGCCAAGCCACCCATTGCTTTTAAATCCAAA
GAACATGTATAGTTTTTGTACCCAGAGACTATGATTTATATTGATTGCACCTGCCTGCCATGATTTAGATAAGAT
TTTTTTTGCATGGTTTTTATTCTTCTAATGGATCCTGTTTTATAATACTTCCAAGCCTGTCCATGGATATATC
AAATGTCTTCACTTGTATGTTTTCATGGCTAGGTATTTCTAATGTTTATTCTTCCCTGTGTACTTCTACACATAG
CTATGCATATGAAAATTAATGGAATGAATGATATGTATATTACTCAAATAAAGTTTCTTTCATTTAAAAAA
AAAAAAAAAAAAAA

374/2682
FIGURE 348

MDLENKVKKMGLGHEQGFGAPCLKCKEKEGFEHFWRKICRNCKCGQEEHDVLLSNEEDRKVGKLFEDTKYTTL
IAKLKSDGIPMYKRNVMLTNPVAAKKNVSINTVTYEWAPPVQNQALARQYMQMLPKEKQPVAGSEGAQYRKKQL
AKQLPAHDQDPSKCHELSPREVKEMEQFVKKYKSEALGVGDVKLPCEMDAQGPKQMNIPIGGDRSTPAAVGAMEDK
SAEHKRTQYSCYCKLSMKEGDPAIYAERAGYDKLWHPACFVCSTCHELLVDMIYFWKNEKLYCGRHYCDSEKPR
CAGCDELIFSNEYTQAENQNWHLKHFFCFCDCDSILAGEIYVMVNDKPVCKPCYVKNHAVVCQGCHNAIDPEVQRV
TYNNFSWHASTECFLCSCCSKCLIGQKFMPVEGMVFCVSVECKRMS

375/2682
FIGURE 349A

GCACITGCTGCTGCCACCGCCGTGCGCGCCGCGCCGCGCCGCTGCTGCTGCCGGTGCTAAGGAGTTCGCTGGA
GCCCCITTCCTCAGACCCGCGCCGGTCTTCGCGCCCGGACTCCTGGCGCCAGCGCTAGGCGCACTACCGCTCTGA
CGGGTGACAGACCGGGAGTTGTCCCAGACTGTGGAGTGGCGGGCACGGCCCCAGCCCCCTTCCCTTCCCTGACC
CCTTCTTGCCATCGCCCCAGACATGGGGAACGCGCGGACCGCCAAGAAAGGCAGCGAGGTGGAGAGCGTGAAAGA
GTTTCTAGCCAAAGCCAAAGAAGACTTTTTGAAAAATGGGAGAATCCAACCTCAGAATAATGCCGGACTTGAAGA
TTTTGAAAGGAAAAAACCCCTTGAACAGGTTTCATTTGGAAGAGTCATGTTGGTAAACACAAAGCCACTGAACA
GTATTATGCCATGAAGATCTTAGATAAGCAGAAGTTGTAAACTGAAGCAAATAGAGCATACTTTGAATGAGAA
AAGAATATTACAGGCAGTGAATTTTCTTTCTTGTTCGACTGGAGTATGCTTTTAAGGATAATTCTAATTTATA
CATGGTTATGGAATATGTCCCTGGGGGTGAAATGTTTTCACATCTAAGAAGAATTGGAAGGTTTCAGTGAGCCCCA
TGCACGGTTTCTATGCAGCTCAGATAGTGCTAACATTCGAGTACCTCCATTCTACTAGACCTCATCTACAGAGATCT
AAAACCTGAAATCTCTTAATTGACCATCAAGGCTATATCCAGGTCACAGACTTTGGGTTTGCCAAAAGAGTTAA
AGGCAGAACTTGGACATTATGTGGAACCTCAGAGTATTGGGCTCCAGAAATAATTCTCAGCAAGGGCTACAATAA
GGCAGTGGATTGGTGGGCATTAGGAGTGCTAATCTATGAAATGGCAGCTGGCTATCCCCATTCTTTGCAGACCA
ACCAATTCAGATTTATGAAAAGATTGTTTCTGAAAGGTCCGATTCCCATCCCACTTCAGTTCAGATCTCAAGGA
CCTTCTACGGAACCTGCTGCAGGTGGATTGACCAAGAGATTGGAATCTAAAGAATGGTGTTCAGTGATATAAA
AACTCACAAGTGGTTTGCCACGACAGATTGGATTGCTATTTACCAGAGGAAGGTTGAAGCTCCATTCTATCCAAA
GTTTAGAGGCTCTGGAGATACCAGCAACTTTGATGACTATGAAGAAGAAGATATCCGTGTCTCTATAACAGAAAA
ATGTGCAAAAAGATTGGTGAATTTTAAAGAGGAACAAGATGACATCTGAGCTCACACTCAGTGTTCGACTCTG
TTGAGAGATAAGGTAGAGCTGAGACCGTCTTGTGGAAGCAGTTACCTAGTTCCTTCATTCCAACGACTGAGTGA
GGTCTTTATTGCCATCATCCCGTGTGCGCACTCTGCATCCACCTATGTAACAAGGCACCGCTAAGCAAGCATTGT
CTGTGCCATAACACAGTACTAGACCCTTTCTTACTTCTCTTTGGGTTGTCTTTCTCTCTCTACATCCATTTCT
TTCCITTTTCCAATTTTATTGGTTTTCTCTAAACAGTGCTCCATTTTATTTTGTGGTGTTCAGATGGGCAGTGT
TATGGCTACGTGATATTGGAAGGGAAGGATAAGTGTGCTTTCAGTAGTTATTGCCAATATTGTTGTTGGTCAAT
GGCTTGAAGATAAACTTTCTAATAATTATTATTCTTTGAGTAGCTCAGACTTGGTTTTGCCAAAACCTCTTGGTA
ATTTTTGAAGATAGACTGTCTTATCACCAGGAAATTTATACAAATTAAGACTAACTTTCTTGAATTCATATT
CTGGCAATAAAATTTTGGTAGACTAATACAGTACAGCTAGACCCAGAAATTTGGAAGGCTGTAGATCAGAGGTTCT
AGTTCCCTTTCCCTCCTTTTATATCCTCCTCCTTGTAGTAATGAAGTGACCAGCCTGTGTAGTGTGACAAACGT
GTCTCATTACAGCAGGAAAACTAATGATATGGATCATCACCAGATTCTCTCACTTGGTACCAGCATTCTGTAG
GTATTAGAGAAGAGTTCTAAGTTTTCTAAACCTTAAGTGTTCCTTAAGGATTTTAGCCAGTATTTAATAGAACA
TGATTAATGAAAGTGACAAATTTTAAATTTCTCTAATAGTCTCATCAAACTTTTTAAAGGAAAAATAAGCAA
ACTAAAAAGAACATTGGTTTAGATAAATACTTATACCTTTGCAAAGTCAAAAATGGCTTGATTTTTGGAACAATA
TAGAGGTATTCTATTTAATGAGGGTTTACATTTGTTTTGTTTTGTAACCGTTAAAAAGAAGTTGTTTCCAGCT
AATTATTGTTGGTGTACTATATTGTGAGCCTAGGGTAGGGGCACTGCTGCAACTCTGCTTTTCAATCCCATGCCTC
ATCAATGAGGAAAGGGAACAAAGTGATAAACTGCCACAATTGTATTTAATTTTGAAGGTATGATTTTTCAGA
TATTTTCATAATTTCTAACCTCTGTTCTCTCAGTAAACAGAATGTCTGATCGATCATGCAGATACAATGTTGGTAT
TTGAGAGGTAGTTTTTTTCTACACTTTTTTTTGCCAACTGACTTAACAACATTGCTGTGAGGTGGAATTTCA
AGCACTTTTGCACATTTAGTTCAGTGTGTTGTTGAGAATCCATGGCTTAACCCACTGTTTTGCTATTTTTTCTT
TGCTTTTAATTTTCCCATCTGATTTTATCTCTGCGTTTCAGTGACCTACCTTAAACAACACACAGAGAAGAGTT
AAACTGGGTTCAATTTAATGATCAATTTACCTGCATATAAAATTTATTTTAAATCAAGCTGATCTTAATGTATAT
AATCATTCTATTTGCTTTATTATCGGTGCAGGTAGGTCAATTAACACCACTTCTTTTCTATCTGTACCACACCCTGG
TGAAACCTTTGAAGACATAAAAAAACCTGTCTGAGATGTTCTTTCTACCAATCTATATGCTTTTGGTTATCAA
GTGTTTCTGCATGGTAATGTCATGTAAATGCTGATATTGATTTCACTGGTCCATCTATATTTAAACGTCGAAGA
AAAAAATAAAATACTCTGCTCTAGCAAGTTTTGTGTAACAAAGGCATATCGTCATGTTAATAAATTTAAACATC
ATTCGTATAAAATATTTAATTTTCTTGTATTTTCATTTAGACCCAAGAACATGCTGACCAATGTGTTCTATATGT
AAACTACAAATTTCTATGGTAGCTTGTGTATATTATTGTAATTTATTTAATAAGTCATGGGGATGACAATTT
GATTATTACAATTTAGTTTTTCTAGTAATCAAAAAGATTCTATGAATCTAAAAAATATTTTTTCTATGAAATTA
CTAGTGCCAGCTGTAGAATCTACCTTAGGTAGATGATCCCTAGACATACGTTGGTTTTGAGGGCTATTACGCCA
TTCCATTTTACTCTCTATTTAAAGGCCGTGAGCAAGCTTGTCTAGAGCAATATGTCAAGGGAGTCAATTTCTGA

376/2682
FIGURE 349B

CCAATCAAGTACACTAAATTAGAATATTTTTAAAGTATGTAACATTCCCAGTTTCAGCCACAATTTAGCCAAGAA
TAAGATAAAAACTTGAATAAGAAGTAAGTAGCATAAATCAGTATTTAACCTAAAATTACATATTTGAAACAGAAG
ATATTATGTTATGCTCAGTAAATAATTAAGAGATGGCATTGTGTAAGAAGGAGCCCTAGACTGAAAGTCAAGACA
TCTGAATTCAGGCTGGAAACTATCAGTATGATCTCAGCCTCAGTTCTTGTCTGTAAAATGGAAGAACTGGA
TTAGGCAGTTTGTAAGATTCCTCCTAAGTTTACAGTCGATGACAAGATTGTCCTTTTATCTGATATTTGAAGG
GTATATTGCTTTGAAGTAAGTCTCAATAAGGCAATATATTTTAGGGCATCTTTCTTCTTATCTCTGACAGTGTTT
TTAAAATTATTTGAATATCATAAGAGCCTTGGTGTCTGTCCTAATTCCTTTCTCACTCACCGATGCTGAATACCC
AGTTGAATCAAAGTGTCAACCTACCAAAAACGATATTGTGGCTTATGGGTATTGCTGTCTCATTCTTGGTATATT
CTTGTGTTAACTGCCATTGGCCTGAAAATACTCATTGTAAGCCTGAAAAAAAATCTTTCCCACTGTTTTTTC
TGCTTGTTGTAAGAATCAATGAAATAATGTATGTGAAAGCACCTTGTAACCTGTAACCTATCAATGTAATGT
TAAGGTGTGTTGTTATTTCAATTAATTACTTCTTGTGTTAGAATGGAATTCCTATGCACTACTGTAGCTAGGAAA
TGCTGAAAACAAGTGTGTTTTTAATTAATCAATAACTGCAAAATTAAAGTACCTTCAATGGATAAGCCAAAAA
ATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCAGGAATTCGATATCAGCTTATCATACC

377/2682
FIGURE 350

HCCCHRRRRRAAAPLLLPVLRSSLEFPFPQTRPGLRARTPGASARRTHRS DGCRRGSCPRLWSGGHGPSPPSLPXP
LLAIAPDMGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKT LTGTGSFGRVMLVKHKATEQ
YYAMKILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMMEYVPGGEMFSLRRIGRFSEPH
ARFYAAQIVLTFEYLSLDLIYRDLKPENLLIDHQGYIQVTDGFAKRVKGRTWTLCGTPEYLAPEIILSKGYNK
AVDWWALGVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVSDIK
THKWFATTDWIAIYQRKVEAPFIPKFRGSGDTSNFDDYEEEDIRVSITEKCAKEFGEF

378/2682
FIGURE 351

CCAGCCCCCTTCCCTTCCCTGACCCCTTCTTGCCATCGCCCCAGACATGGGGAACGCGGCGACCGCCAAGAAAG
GCAGCGAGGTGGAGAGCGTGAAAGAGTTTCTAGCCAAAGCCAAAGAAGACTTTTGGAAAAATGGGAGAATCCAA
CTCAGAATAATGCCGACTTGAAGATTTTGAAGGAAAAAAACCCCTTGGAACAGGTTTCATTTGGAAGAGTCATGT
TGGTAAACACAAAGCCACTGAACAGTATTATGCCATGAAGATCTTAGATAAGCAGAAGGTTGTTAAACTGAAGC
AAATAGAGCATACTTTGAATGAGAAAAGAATATTACAGGCAGTGAATTTTCCTTTTCCTTGTTCGACTGGAGTATG
CTTTTAAGGATAATTCTAATTTATACATGGTTATGGAATATGTCCCTGGGGGTGAAATGTTTTACATCTAAGAA
GAATTGGAAGGTTTCAGTGAGCCCCATGCACGGTTCTATGCAGCTCAGATAGTGCTAACATTCGAGTACCTCCATT
CACTAGACCTCATCTACAGAGATCTAAAACCTGAAAATCTCTTAATTGACCATCAAGGCTATATCCAGGTCACAG
ACTTTGGGTTTGCCAAAAGAGTTAAAGGCAGAACTTGGACATTATGTGGAACCTCAGAGTATTGGCTCCAGAAA
TAATTTCTAGCAAGGGCTACAATAAGGCAGTGGATTGGTGGGCATTAGGAGTGCTAATCTATGAAATGGCAGCTG
GCTATCCCCCATTTCTTTGAGACCAACCAATTCAGATTTATGAAAAGATTGTTCTGGAAAGGTCGGATTCCCAT
CCCCTTCAGTTCAGATCTCAAGGACCTTCTACGGAACCTGCTGCAGGTGGATTGACCAAGAGATTGGAAATC
TAAAGAATGGTGTGAGTGATATAAAAACCTCACAAGTGGTTTGGCACGACAGATTGGATTGCTATTACCAGAGGA
AGGTTGAAGCTCCATTACACCAAGTTTAGAGGCTCTGGAGATACCAGCAACTTTGATGACTATGAAGAAGAAG
ATATCCGTGTCTCTATAACAGAAAAATGTGCAAAAAGAATTTGGTGAATTTTAAAGAGGAACAAGATGACATCTGA
GCTCACACTCAGTGTGTTGCACTCTGTTGAGAGATAAGGTAGAGCTGAGACCGTCTTGTGGAAGCAGTTACCTAG
TTCTTTTCATTCCAACGACTGAGTGAGGTCTTTATGCCATCATCCGTGTGCGCACTCTGCATCCACCTATGTAAC
AAGGCACCGCTAAGCAAGCATTGTCTGTGCCATAACACAGTACTAGACCCTTTCTTACTTCTCTTTGGGTTGTC
TTTCTCCTCTCCTACATCCATTCTTCTCTTTTCAATTTTCATTGGTTTTCTCTAAACAGTGCTCCATTTTATTTTG
TTGGTGTGTTTCAGTGGGCAGTGTATTGGCTACGTGATATTGGAAGGAAGGATAAGTGTGCTTTTCAGTAGTTAT
TGCCAATATTGTGTTGGTCAATGGCTTGAAGATAAACTTTCTAATAATTATTATTCTTTGAGTAGCTCAGACT
TGGTTTTTGCCAAAACCTCTTGGTAATTTTTGAAGATAGACTGTCTTATCACCAGGAAATTTATACAAATTAAGAC
TAATTTCTTGAATTCACATTTCTGGCAATAAATTTTGGTAGACTAATACAGTACAGCTAGACCCAGAAATTTG
GAAGGCTGTAGATCAGAGGTTCTAGTTCCTTTCCCTCCTTTTATATCCTCCTCCTTTGAGTAATGAAGTGACC
AGCCTGTGTAGTGTGACAAACGTGTCTCATTACAGCAGGAAAACTAATGATATGGATCATCACCAGATTCTCTC
ACTTGGTACCAGCATTCTGTAGGTATTAGAGAAGAGTTCTAAGTTTTCTAAACCTTAAGTGTCTCTTAAGGATT
TTAGCCAGTATTTTAATAGAACATGATTAATGAAAGTGACAAATTTAAATTTTCTCTAATAGTCTCATCATAA
ACTTTTTAAAGGAAAAATAAGCAAACTAAAAAGAACATTGGTTTAGATAAAATACTTATACTTTGCAAAGTCAAAAA
TGGCTTGATTTTTGGAAACAATATAGAGGTATTCATATTTAAATGAGGGTTTACATTTGTTTTGTTTGTAAACCG
TTAAAAAGAAGTTGTTTCCAGCTAATTATTGTGGTGTACTATATTGTGAGCCTAGGGTAGGGGCACTGCTGCAA
CTTCTGCTTTTCATCCCATGCCTCATCAATGAGGAAGGGAACAAAGTGTATAAAACCTGCCACAATTGTATTTTA
ATTTTGAGGTATGATATTTTCAGATATTTTCATAATTTCTAACCTCTGTTCTCTCAGTAAACAGAATGTCTGATCG
ATCATGCAGATACAATGTTGGTATTTGAGAGGTAGTTTTTTTCTACACTTTTTTTTGGCAACTGACTTAACAA
CATTGCTGTGAGGTGGAATTTCAAGCACTTTTGCACATTTAGTTCAGTGTGTTGTTGAGAATCCATGGCTTAACC
CACTTGTTTTTGCTATTTTTTTCTTTGCTTTTAATTTTCCCATCTGATTTTATCTCTGCGTTTCAGTGACCTACC
TTAAAAACAACACACGAGAAGAGTTAACTGGGTTTCATTTTAATGATCAATTTACCTGCATATAAAATTTATTTTT
AATCAAGCTGATCTTAATGTATATAATCATTCTATTTGCTTTATTATCGGTGCAGGTAGGTCAATTAACACCCTT
CTTTTCATCTGTACCACACCCTGGTGAACCTTTGAAGACATAAAAAAAACCTGTCTGAGATGTTCTTTCTACCA
ATCTATATGTCTTTCGGTTATCAAGTGTCTGTCATGGTAATGTCATGTAAATGCTGATATTGATTTCACTGGTC
CATCTATATTTAAACGTGC

379/2682
FIGURE 352

MGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKTLTGTSFGRVMLVKHKATEQYYAMKIL
DKQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMVMMEYVPGGEMFSLRRIGRFSEPHARFYAAQ
IVLTFEYLHSLDLIYRDLKPENLLIDHQGYIQVTDGFGAKRVKGRTWTLCTPEYLAPEIILSKGYNKAVDWWAL
GVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVSDIKTHKWFAT
TDWIAIYQRKVEAPFIPKFRGSGDTSNFDDEEDIRVSITEKCAKEFGEF

380/2682
FIGURE 353A

CCCCGGCGAGCCCGCGTGCACAGCTCTGCCGCCGCCCTGGAGCGGATCCCCAGCCGTCCCTGGGCGTTCT
CCCCGGTTCTAGCAAAGCCCCCGGGTGCCATCAGTTTCTTGGGTGACTACAGCGTGTGTTTTTCTTTCTCT
CTTTCCCTGCGTGTGTGCCCTTCTCCAGGATGGCAGAGGCGGAATTGCACAAGGAAAGGCTGCAAGCCATAGCA
GAAAAAAGAAAGAGGCAGACTGAAATAGAAAGCAAGCGACAACAGCTTGACGAGCAGATACTTCTGCTGCAGCAT
TCCAAGTCCAAAGTGCTTCGGGAGAAATGGCTGCTGCAGGGCATACCCGCTGGAAGTCCGAAGAGGAGGAAGCC
AGGAGGCGCGCAGTCTGAAGAGGATGAGTTCAGAGTCAAGCAACTTGAAGATAACATTTCAGAGGCTGGAGCAAGAA
ATACAAACGCTAGAAAGTGAAGAGTCCAGATATCTGCCAAAGAGCAAATCATCCTAGAGAACTGAAGGAAACA
GAAAAATCCTTCAAGGACTTTTCAGAAAGGTTTCTCCAGTACGGATGGAGATGCAGTAAATTACATTTCTCCAG
CTTCCCGACCTGCCAATCCTCTGTTACGAACAGCAGAACCATCACCTGGGCAGGACGGGACCAGCAGAGCGGCT
GGAGTGGGTGGGAGAATGTGCTGCTAAAGGAAGGTGAGTCAGCCTCGAACGCCACAGAAACATCCGGCCCAGAC
ATGACTATCAAGAAGCCTCCCCAGCTTCTGAGGATGATATCTGGCTAAAAAGCGAGGGAGACAACATATAGTGCC
ACCTCTGGAGCCTGCTGCCAGCTCTTTTCCCGAGTACAAAAACATGGAAATTGAGGTGTCTGTTGCAGAA
TGTAAGTGTTCCTGGAATCACCTTACCCACATCCCATGGACCATCCCTCCGCTTTCTATTACCCCCGCAT
AATGGCCTCCTTACTGATCACCACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTG
CTAGAGGCCAATGCTGTGATTCTGCTGTGGATGGAACGTACAATGGAACATCCTCCCCAGAGCCTGGTGCAGTG
GTTCTGGTGGGCGGCTAAGCCCCCTGTCCACGAGGCGACCCAGCCAGAACCCACTGAAAGAACAGCTAGCCGG
CAGGACCTCCTCACATCGAGCTCAGTAATAGCAGCCCTGACCCCATGGCAGAGGCAGAAAGAACAAATGGCCAT
TCCCCAGCCAGCTAGAGATGCGCTGGGGACAGCCTGCAGGTGCTGTGACCCAGCTCCACAACCAGCTCA
CGGTGTTCTTCCCGAGATGGAGAGTTCACTCTCACCACACTGAAAAAGGAGGCCAAGTTTGAGCTGCGTGCCTTC
CATGAGGACAAGAAGCCCTCCAAGCTCTTTGAGGATGACGAGCATGAGAAAGAACAACTGCAATAGAAAAGTG
AGGCCTTCAGAGGAGATGCTGGAGCTGGAAGAGGAGAGAGAGCTCATCCGCAGCCAGGCGCTCAAGAAGAAT
CCTGGCATTGCAGCAAAATGGTGAATCCCCCGCAGGAAAAAACCATCGAGGAGCAGCTGGACGAGGAACATCTG
GAGTCGCACAAAAAGTACAAGGAGCGCAAGAGAGAAGGGCACAGCAGGAACAGTTGCTGCTGCAGAAGCAGTTA
CAGCAGCAGCAGCAGCAGCCCCCATCGCAGCTCTGCACAGCCCTGCCTCTTCTCATGAACGCGCAAGCATGATT
GACAAAGCAAAGGAGGACATTGTACAGAGCAGATAGATTTCTGCTGCTCGCAAAACAATTTACGTGATGGAG
AATTCCAGGCAAGCGGTGGCCAAGGGCCAGAGTACACCCAGGCTGTTCTCCATCAAGCCTTTCTACAGGCCTCTG
GGGTCACTCAACTCAGACAAGCCACTGACTAATCCGAGACCACCTTCTGTCGGGGGACCTCCAGAAGACAGTGGT
GCCTCAGCCGCCAAGGGACAGAAATCCCCCGGTGCCCTGGAGACCCCATCGGCAGCAGGAAGCCAGGGCAACACA
GCCTCTCAGGGGAAGGAAGGGCCCTACAGCGAGCCTTCTAAACGTGGGCCCTTATCTAACTGTGGGCTGAGGAT
GGAGAATTTACGAGCGCCCGGCTGTCTCACTGTGGTCAAGGATGATGACCATGGGATTTTGGATCAGTTCTCA
AGATCTGTCAATGTCTCCTTGACCCAAGAGGAGCTTGACTCTGGTCTGGACGAATTGTGCGGTGAGGTCTCAGGAT
ACCACAGTCTGGAGACCCTATCCAATGATTTACGATGGACAACATCAGTGACAGCGGGGCATCCAATGAGACA
ACCAATGCCCTCCAGGAAAATTCAGTGGCTGATTTTTCTGCCCCAGACACCACAACTGACAACCCCTCAGAG
GGCCGAGGAGAAGGCGTCTCCAAGTCATTTAGTGATCATGGTTTCTATTCCCTTCTCCACGCTGGGGGACTCT
CCGTTGGTTGATGACCCCTTGAGTATCAGGCTGGCCTCCTGGTGCAAGTCCATTCAACAAGCCATAGCCGAG
CAGGTGGATAAAGCTGTGTCCAAAACAGCAGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAA
GCTGAAGCTGCGGCTTTCGGCTCAGAAAAGCTCAGAGCATGTTTGAGCCACCTCAGGTGTCTTCTCCTGTTCAA
GAGAAAAGGGATGTATTACCAAAGATTCTGCCTGCTGAAGACAGGGCGCTCAGGGAAAGGGGGCCCCCCAGCCA
CTGCCAGCTGTGCAGCCCAGTGGCCCGATTAACATGGAGGAGACCAGGCCCCGAAGGAAGCTATTTACAGCAAGTAC
TCGGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCCACTCAAGAATCTGACGTGATGGTTGGGCCTTTC
AAGCTGAGGTCCAGGAAACAGCGGACTTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGAAGAG
GAGCTGAAGAGGCAGAGACAAGTCTGCAGAGTACGCAGAGCCCCAGGACAAAGAATGCCCATCACTGCCCTCC
AGAACATGCTACAAAAGTCTCCAGGGAAAATAGAGAAAGTCAAACCTCCTCCATCCCCCACCCTGAAGGCCCC
AGCTTGACGCTGACTTAGCCCCGAAGAGGCTGCCGGAACCCAGCGGCCCAAGAATCTGATGCAGACCCTCATG
GAAGACTATGAGACACACAAATCTAAAAGGCGCAGAGAAATGGATGATAGTAGTTACTTCTAAGTTACTGTCT
TGCAAGGTGACTTCCGAGGTCTCGAGGCCACACGGTTAATCGAAGAAAGAGCGCACTGGCTTTGCGCTGGGAA
GCAGGGATCTATGCCAACAGGAGGAAGAAGACAACGAATAAATCCTTCAACCCAGGAAGCGTCTTTGGTGCT
TGGGAGACCAAGAAACCAAGAAATTAACAAGTGAAGCATTTTAATGGACTATTTATTAAGTGCAACAACTC

[illegible]

382/2682
FIGURE 353C

TGAATATATTCCATTTTAGTTAAAGAACAATTTCTGAATTTAAGCATTTCAGTGAGCTGCCAATTTTGATTTT
GTGTTGCTCITTACCCAAATTATTTTTCTTTGTTTTCTTTTTTGGGGGAGGAGGGGAAAAAGCAGCAATAC
TGTGTTTGAAATTATACTCTGTATCTGGTTTTCTGTGTATGTTAACCACTTAAATGTTATTATCTGCTTTGG
TTTAGAGTGATTGTGAGGCATTCAATGCAAGTATACAGTTATTTCTCATTAAATCCAATGTGTGTTGAGTTT
TTATAAAAAAAAAAAAAAAAAA

383/2682
FIGURE 354

MAEAE LHKERLQAIAEKRRQTEIEGKRQQLDEQILLQHSSKSVLREKWLLQGIPAGTAE EEEARRRQSEEDF
RVKQLEDNIQRLEQEIQTLESEESQISAKEQIILEKLEKETEKSFKDFQKGFSSDGDVANYISSQLPDLPIILCSR
TAEPSPGQDGTSTRAAGVGVWENVLLKEGESASNATETSGPDMTIKKPPQLSEDDIWLKSEGDNY SATLLEPAASSL
SPDHKNMEIEVSVAECKSVPGITSTPHPMDHPSAFYSPPHNGLLTDHHESLDNDVAREIRYLDEVLEANCCDSAV
DGTYNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTASRQAPPHIELSNSSPDMAEAERTNGHSPSQPRDALG
DSLQVPVSPSSTTSSRCSSRDGEFTLTTLKKEAKFELRAFHEDKKPSKLFEDDEHEKEQYCIRKVRPSEEMLELE
KERRELIRSQAVKKNP GIAAKWNPPEKTIIEEQLDEEHLESHKKYKERKERRAQEQ LLLQKQLQQQQQQPPSQ
LCTAPASSHERAS MIDKAKEDIVTEQIDFSAARKQFQLMENSRQAVAKGQSTPRLFSIKPFYRPLGSVNSDKPLT
NRPSPSVGGPPEDSGASAAKGQKSPGALETPSAAGSQGNTASQKKEGPYSEPSKRGPLSKLWAEDGEFTSARAVL
TVVKDDDHGILDQFSRSVNVSLTQEELDSGLDELSVRSQDITVLETLSNDFSMDNISDSGASNETTNALQENSLA
DFSLPQTPQTDNPSEGRGEGVSKSFSDHGFYSPSSTLGDSPLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTS
RDGAEQQGPEATVEEEAEAAAFGSEKPQSMFEPQVSSPVQEKRDVLPKILPAEDRALRERGPPLPAVQPSGPI
NMEETREPGSYFSKYSEAAELRSTASLLATQESDVMVGPFKLRSRKQRTLSMIEEEIRAAQEREEELKRQRQVLQ
STQSPRIKNAPSLPSRTCYTAPGKIEKVPPPSPTTEGPSLQPDLAPEEAAGTQRPKNLMQTLMEDYETHKSKR
RERMDDSSYTSKLLSCKVTSEVLEATRNVNRRKSALALRWEAGIYANQEEEDNE

384/2682
FIGURE 355

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCCGGCCGCGCAGCCATGAACTCCAACGTGG
AGAACCTACCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCACCTCCAGGTCACCATCGAGGGCCCTGAGGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGAGGCGGGCCGCTGCTCTTGGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGGCGCCGGCGGGCCAGCGGCAGGGCCGAAGCCGCTCGGGCCCTGGCCAGTGGCACTGAAGCTTCCTCCACCG
ACCCTGGGGCCCCAGGGGGCCCGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGGCGCTGCGGCGGCTGTAGTGGGCTCTCTTCC
TCCTTCCACCGTGACCCCAACCTCTCCTGTCCCTCCCTCCAACCTCTGTCTCTAAGTTATTAAATTATGGCTGG
GGTCGGGGAGGGTACAGGGGGCACTGGGACCTGGATTGTTTTTCTAAATAAAGTTGGAAAAGCA

385/2682
FIGURE 356

MNSNVENLPPHIIRLVYKEVTTLTADPPDGIKVPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLLKGKDFPASPP
KGYFLTKIFHPNVGANGEICVNVLKRDWTAELGIRHVLLTIKCLLIHPNPESALNEEAGRLLLENYEEYAARARL
LTEIHGGAGGPGSGRAEAGRALASGTEASSTDPGAPGGPGGAEGPMAKKHAGERDKKLAAKKTDKKRALRALRRL

386/2682
FIGURE 357A

TCGGAGTGCCGCCCCGCGGCCCGAGTCGGTCTCGAGCCGCCGCGGCCGCGTCCGGTGTCCGTAGGCGCTGCGCC
CTCGGCCGGGCCCCATGTGTGTGCGGCCCGCCGAGGCCGCCGCGGCTTTGCCTCCACCAGCGCCCTGGCCTCCGC
TCGGGCTCCACACGGGCTCCGAAGAGCTGCCGCGACGCCGCGCCGCGAGGGCAGGTAAGAGATTATAAATCT
TCCACTGAATGAAAAAATTTTCTTAAAGCTGCATATACTCCAAGAAAAAACCAAAATGTTTTCTGTTTTGC
CTGAATACATGATTTAAACAAGAGATTTCACAGAAGCTCTGCGGCCGTACGATGTTCTGGAAGTTTGACTTGA
ACACCACGTCCCATGTTGACAAGCTGCTGGACAAGGAGCATGTGACGCTGCAGGAGTTAATGGATGAAGATGACA
TCTTGACAGGAGTGTAAGGCTCAGAACCAGAAGCTGCTGGACTTCCTGTGCAGGCAGCAGTGCATGGAGGAGCTGG
TGAGCCTCATCACACAGGATCCGCCCTGGACATGGAGGAGAAGGTCCGCTTCAAATATCCAAACACAGCCTGTG
AGCTTCTGACTTGTGATGTGCCGAGATCAGCGACCGCCTCGGTGGGGACGAGAGCCTGCTGAGCCTCCTGTACG
ACTTCTTGAGACATGAGCGCCTCTCAATCCTCTGCTCGCCAGTTTTTTTTCAGCAAGACCATTGGCAATCTCATTG
CAAGAAAAACCGAACAGGTGATTACGTTTTTGAAGAAGAAGGACAAGTTCATCAGCCTGGTGTGAAGCACATCG
GCACCTCAGCGCTTATGACCTGCTGCTGCGCCTGGTACGTGTGTGGAGCCAGCCGGGCTCCGGCAGGACGTCC
TGCACCTGGCTGAATGAAGAGAAGGTATCCAGAGGCTTGTGGAGTTGATCCACCCGAGCCAGGATGAAGATAGGC
AGTCAAAATGCTTCTCAGACTCTCTGTGACATAGTTAGGCTGGGCAGAGACCAGGGCAGTACGTGCAAGAGGCTC
TGGAGCCAGACCCGCTCCTCACAGCGCTGGAGTCGAGGACTGTGTGGAGCAGCTTCTGAAGAACATGTTTGATG
GAGACCGGACGGAGAGCTGCCCTGCTCAGTGGGACTCAGGTGTTACTCACCTTGTGGAACAGGCGGGTTGGGA
CAGAGGGCTTGGTGGACTCCTTTTCTCAGGACTGGAAGGTATACGCTGTGAGCAGCAGCTACTACACGGCA
TCGAGCCTCGGCTGAAGGACTTCCACCAGCTCCTGCTCAACCCGCCCAAGAAGAAAGCGATCCTGACCACCATG
GTGTGCTGGAGGAGCCCTGGGGAATGCCGCTGTGATGGCGCCCGCCTCATGGCAGCACTGCTGCACACAAACA
CACCCAGCATCAACCAGGAGCTCTGCCGGCTCAACACGATGGACTTACTGCTGGACTTGTCTTTAAGTACACCT
GGAATAACTTTTTGCATTCCAAGTGAATATGCATAGCCGCTATTCTCTCCACGCTGCCCGTGAGGAGAGGA
CAGAAGCCAGCGATCCGAGAGCAGGGTGGAGCCTCCGATGAGAACGGGAACCGGAGCCTGGAGACTCCCCAGC
CGGCCGCCAGCCTCCTGACAACACAATGGTGACCCACCTGTTCCAGAAGTGTGCTGGTGCAGAGGATCCTGG
AGGCTTGGGAAGCCAACGACCACACGACGAGGCGGGTGGCATGAGACGTGGGAACATGGGCCACCTCACACGGA
TCGCCAACCGGTGGTGCAGAACCTGGAGCGGGGCCCTGTGCAGACGCACATCAGCGAGGTATCCGAGGGCTCC
CTGCCGACTGCCGTGGCGCTGGGAGAGCTTCGTGGAGGAGACGCTGACGGAGACGAACCGCAGGAACACTGTGG
ACCTGGCCTTCTCTGACTACCAGATCCAGCAGATGACAGCCAACTTCGTGGATCAGTTTGGCTTCAATGATGAGG
AGTTTGCCGACCAGGACGACAACATCAATGCCCGTTTTGACAGGATCGCAGAGATCAACTTCAACATCGACGCTG
ACGAGGACAGTCCCAGCGCAGCTCTGTTTGAGGCTGCTGCAGTGACCGCATCCAGCCCTTTGATGATGATGAGG
ACGAGGACATCTGGGAGGACAGTGACACTCGCTGTGCTGCCCGGGTGATGGCCAGACCCAGGTTTGGAGCCCCC
ATGCTTCAGAGAGTTGCTCAAGAATGGCCCAGAGCGTGGAGGCCAGGATGGGAAGGCGAGCTTGAAGCACACA
GAGATGCACCTGGGGCAGGTGCCCCACCGCCCCCGGAAGAAGGAAGCCCCCTGTGGAGGGTGACTCAGAAG
CAGGCGCCATGTGGACGGCAGTGTGATGAGCCAGCGAACTCAACGCCACAGCCCCAGGAGTGGTGGAGGACG
TGGGTTCCAGTGTGTGGGACGCTGGCACCTCAGCTCCAGAGGAGAAAGGCTGGGCCAAGTTCACTGACTTCCAAC
CTTCTGCTGCTCCGAGTCAGGGCCAGGTGCAGCTCTCCGTGGACACAGAATGCAGCCATGCTGAGGGCAGCC
GGAGCCAAGGCCCTGAGAAAGCCTTCAGCCCGGCTTCTCCATGTGCTGGAACGTGTGTGTACCAGGAAGGCCC
CCCTGCTGGCCTCTGACAGTAGCTCCTCTGGGGCTCCACAGCGAGGATGGCGACCAGAAGGCAGCGAGTGCCA
TGGATGCGGTGAGCAGGGGTCCCGCCGGGAGGCCCCCGCTGCCACAGTGGCCAGGACAGAGGAGGCGGTG
GCAGGGTCCGGTGTGCTGACAGCCGGCTGTTAAGCCCTGCCTGCCCGCGCCAAAGGAAGTGAAGTGTGCCCCAG
CCGTGGCTGTGCCCCCGAGGCTACTGTGGCCATACCACAGCACTGAGCAAGGCTGGCCCCGCCATACCCACCC
CAGCAGTCTCTTCTGCACTGGCCGTGGCGGTCCCCCTAGGGCCCATCATGGCAGTACAGCAGCCCCAGCCATGG
TGGCCACCTTGGGACAGTGACAAAGGACGGACAGATGCCCGCCAGAAGGAGCTGCCTTAAATGGCCCAAGTGTG
ATGCTGCTGCCGCCCGCCACGCCCCACCTGGTCAAGCTGCCTCCTTAATCGAGAAAACCTACCTGGTGATGCAA
TCTTTTTTTTTTAATTTAATTTAATTTTAAATAAATGCTGCATTGGTAAAGCTGGCAGTTGAACCAGTTGGA
CGGCCAGCTTGGCTCTCTTCTGCTGAGTGGGCTCTCAGGTCACTCGTGGCTGCTGGAGGACAGAGGGGCAC
CTCAGCCGCCCCAAGCCAGAGCACAGCAATAAGTTCGGCTGCAGGAGCCGGGTGGGGTGGGGGGGGCAGG
ACCCTGAGATGCCACCAGGACCTGATGGGCCAGGAAGGGCGTGGACATGGAGGCTGTTTTTACAGTTTTTTTTT
TTGTTGTTTTGTTTTTAAAGAATACAGAAGGAGCCAAGCTTTTTTGCACTTTGTATCCAGCTGCAAGCTCAGGGC

387/2682

FIGURE 357B

AGAGTCAAGGGCCTGGGTTGGAAAAACCTGACTCACAGGAATGCATAATTGACCCTTGCAGCTACCCAATAGCCC
TTGGAGCTGGCACTGAACCAGGCTGCAAGATTGACTGCCTTAAAAACACAAGGCCCTCTAGGCCTGGCAGGGAT
GTCCCTGTGCCCAGCACAGGGTGCCTGGCAGGGGGAGACCACAGGTATGCAGGTGGGGGGACATGGTGTGGCACT
GGGGGCTCGAAGACTGGTTTCTAGCACTACCGGTCACGGCCATGTCGTCCTAGAAGGGTCCAGAAGATTATTTTA
CGTTGAGTCCATTTTAAATGTTCTGATCACCTGACAGGGCACCCCAAACCCCAACTCCCAATAAAAAGCCGTGAC
GTTCGG

388/2682
FIGURE 358

MFWKFDLNTTSHVDKLLDKEHVTLQELMDEDDILQECKAQNKLLDFLCRQQCMEELVSLITQDPPLDMEEKVRF
KYPNTACELLTCDVPIISDRLGDESLLSLLYDFLDHEPPLNPLLASFFSKTIGNLIARKTEQVITFLKKKDKFI
SLVLKHIGTSALMDLLRLVSCVEPAGLRQDVLHWNEEKVIQRLVELIHPSQDEDRQSNASQTLCDIVRLGRDQ
GSQIQEALPDPLLTALLESQDCVEQLLKNMFDGDRTESCLVSGTQVLLTLETRRVGTEGLVDSFSQGLERSYAV
SSSVLHGIEPRLKDFHQLLLNPPKKKAILTTIGVLEEPLGNARLHGARLMAALLHTNTPSINQELCRLNTMDLLL
DLFFKYTWNNFLHFQVELCIAAILSHAAREERTEASGSESERVEPPHENGNSLETQPAASLPDNTMVTHLFQKC
CLVQRILEAWEANDHTQAAGGMRRGNMGLTRIANAVVQNLERGPVQTHISEVIRGLPADCRGRWESFVEETLTE
TNRRTVLDLAFSDYQIQMTANFVDQFGFNDEEFADQDDNINAPFDRIAEINFNIDADEDSPSAALFEACCSARI
QPFDDDEDEDIWEEDSDTRCAARVMARPRFGAPHASESCSKNGPERGGQDGKASLEAHRDAPGAGAPPAPGKKEAP
PVEGDSEAGAMWTAVFDEPANSTPTAPGVVRDVGSSVWAAGTSAPEEKGWAKFTDFQPFCCSESGPRCSSPVDTE
CSHAEGSRSQGPEKAFSPASPCAWNVCVTRKAPLLASDSSSSGGSHSEGDQKAASAMDAVSRGPGREAPPLPTV
ARTEEA VGRVGCADSRLLSPACPAPKEVTAAPAVAVPPEATVAIT TALS KAGPAIPTPAVSSALAVAVPLGPIMA
VTAAPAMVATLGTVTKDGQMPRQKELP

389/2682
FIGURE 359

GTTCCGCGAGGAGGCCGCGCCAGTGACAGCGATGCGCGGAGTCCGCGCTCCAAGTTGTGGAGAAGCTGCAGG
CGCGCCTGGCCGCGAACC CGGACCCTAAGAAGCTATTGAAATATTTGAAGAACTCTCCACCCTGCCTATTACAG
TAGACATTCTTGGCGAGACTGGGGTTGGGAAAACAGTAAATAGCTTGGGAAAACACGAGCATGTTGGAAGCTTTG
CCAGGGACCTAGTGGCCAGTGGGAAGAAGCTGGTTCTGTGGAACGAAATGCTGAGCCTGATGAACAGGACTTTG
AGAAGAGCAATTCCCGAAAGCGCCCTCGGGATGCCTGCAGAAGGAGGAGGAGATGGAGGGGGACTACCAAGAAA
CCTGGAAAGCCACGGGGAGCCGATCCTATAGCCCTGACCACAGGCAGAAGAAACATAGGAACTCTCGGAGCTCG
AGAGACCTCACAAAGTGTCTCACGGTCATGAGAGGAGAGATGAGAGAAAGAGGTGTACAGAATGTCACCAACTT
ACTCTTCAGACCCTGAGTCTTCTGATTATGGCCATGTTCAATCCCCTCCATCTTGTACCAGTCTCATCAGATGT
ACGTGACCACTACAGATCCCTGGAGGAGGACCAGGAGCCCATGTTTTCACACCAGAAGCCTGGGAAAGGCCACA
GCAATGCCTTTTCAGGACAGACTCGGGGCCAGCCAAGAACGACACCTGGGTGAACCCCATGGGAAAGGGGTTGTGA
GTCAAAACAGGAGCACAAATCTTCCCACAAGGACAAACGCCCCGTGGATGCCAAGAGTGATGAGAAGGCCTCTG
TGGTGAGCAGAGAGAAATCACACAAGGCCCTCTCCAAAGAGGAGAACCAGAAGGCCACCCTCAGGGGACAATGCAA
GGGAGAAACCGCCCTCTAGTGGCGTAAAGAAAGAGAAGGACAGAGAGGGCAGCAGCCTGAAGAAGAAGTGTTCG
CTCCCTCAGAGGCCGCTTCAGACAACCACCTGAAAAAGCCAAAGCACAGAGACCCAGAGAAAGCCAAATTGGACA
AAAGCAAGCAAGGTCTGGACAGCTTTGACACAGGAAAAGGAGCAGGAGACCTGTTGCCCAAGGTAAAAGAGAAGG
GTTCTAACACCTAAAGACTCCAGAAGGGAAAGTCAAAACTAATTTGGATAGAAAGTCACTGGGCTCCCTCCCTA
AAGTTGAGGAGACAGATATGGAGGATGAATTCGAGCAGCCAACCATGTCTTTTGAATCCTACCTCAGCTATGACC
AGCCCCGGAAGAAAAAGAAAAAGATTGTGAAAACCTTCAGCCACGGCACTTGGAGATAAAGGACTTAAAAAAATG
ACTCTAAAAGCACTGGTAAAACTTGGACTCAGTTTCAGAAATTACCCAAGGTGAACAAAACCAAGTCAGAGAAGC
CGGCTGGAGCTGATTTAGCCAAGCTGAGAAAGGTGCCTGATGTGTTGCCAGTGTGTCAGACCTCCCGTTACCCG
CGATACAGGCCAATTACCGTCCACTGCCTTCCCTCGAGCTGATATCCTCCTTCCAGCCAAAGCGAAAAGCGTTCT
CTTACCCCCAGGAAGAAGAAGAGCTGGATTTACTGGGCGCAGAAATGAATTCAGATGCAGGTGTATTCTGGTT
CCAAGTGTGCTATCTCCCTAAAATGATGACCTTGACACAGCAATGCATCCGAGTACTTAAAAACAACATCGATT
CAATCTTTGAAGTGGGAGGAGTCCCATACTCTGTTCTTGAACCCGTTTTGGAGAGGTGTACACCTGATCAGCTGT
ATCGCATAGAGGAATACAATCATGTATTAATTGAAGAAACAGATCAATTATGGAAAGTTCATTGTCACCGAGACT
TTAAGGAAGAAAGACCCGAAGAGTATGAGTCGTGGCGAGAGATGTACCTGCGGCTTCAGGACGCCCGAGAGCAGC
GGCTACGAGTACTAACAAAGAATATCCAGTTCGCACATGCCAATAAGCCCAAAGGCCGACAAGCAAAGATGGCCT
TTGTCAACTCTGTGGCCAAGCCACCTCGTGACGTCCGGAGGAGGCAGGAAAAGTTTGGAAACGGGAGGAGCAGCTG
TCCCTGAGAAAATCAAGATCAAGCCAGCCCCGTACCCCATGGGAAGCAGCCATGCTTCCGCCAGTAGCATCAGCT
TTAACCCAGCCCTGAGGAGCCGGCCTATGATGGCCCAAGCACCAGCAGTGCCCACTTGGCACCAGTGGTCAGCA
GCACTGTTTCCTATGATCCTAGGAAACCCACTGTGAAGAAAATTGCCCAATGATGGCCAAGACAATTAAAGCTT
TCAAGAACAGATTCTCCCGACGATAAACTGAGGACTTGCTTGGAAATGGAATCTGGGGAGGCAGGAATACAAGG
ACAGTGGGGGTTGGGGAATGGAATTCTACAGGAGACTGGAGTCTTGCTTTGTGGATCCTTTTGGTCTCCGAGTCT
GCAGTCTGCAGGTGCTGCCCCTGGGAACCTGCGTGCCACAGCCCCGCCTCCCTGCCTGGAGCACACTTTAGAATT
CTGAAGATGTGAAGCCTCTGTCTCACTGAGGATTTTAAAGGTCAATTATACTTTTGTGTTTCATTAGCATCTTG
TAAACTATAAGACGTAGTTTTAATTAATAAATATTGCCCCCAGATGTTAAA

390/2682
FIGURE 360

MAAESALQVVEKLQARLAANPDPKKLLKYLKKLSTLPITVDILAETGVGKTVNSLRKHEHVGSFARDLVAQWKKL
VPVERNAEPDEQDFEKSNSRKRPRDALQKEEEMEGDYQETWKATGSRSYSPDHRQKKHRKLSELERPHKVSHGHE
RRDERKRCHMSPTYSSDPESDYGHVQSPPSCTSPHQMYVDHYRSLEEDQEPVSHQKPGKGHSNAFQDRLGAS
QERHLGEPHKGKGVVSQNKEHKSSHKDKRPVDAKSDEKASVVSREKSHKALSKEENRRPPSGDNAREKPPSSGVKK
EKDREGSSLKKKCLPPSEAASDNHLKKPKHRDPEKAKLDKSKQGLDSFDTGKGAGDLLPKVKEKGSNNLKTPEGK
VKTNLDRKSLGSLPKVEETDMEDEFEQPTMSFESYLSYDQPRKKKKKIVKTSATALGDKGLKKNDKSTGKNLDS
VQKLPKVNKTKSEKPAHADLAKLRKVPDVLPLVLPDLPLFAIQANYRPLPSLELISSFPKRKAFSSPQEEEEAGF
TGRMNSKMQVYSGSKCAYLPKMMTLHQQCIRVLKNNIDSIFEVGGVPYSVLEPVLERCTPDQLYRIEYNNHVL
EETDQLWKVHCHRD FKEERPEEYESWREMYLRLQDAREQRLRVLTKNIQFAHANKPKGRQAKMAFVNSVAKPPRD
VRRRQEKFGTGGAAPVEKIKIPAPYPMGSSHASASSISFNPSPEEPAYDGPSTSSAHLAPVVSSTVSYDPRKPT
VKKIAPMMAKTIKAFKNRFSRR

391/2682
FIGURE 361

AGCAGAGCACACAAGCTTCTAGGACAAGAGCCAGGAAGAAACCACCGGAAGGAACCATCTCACTGTGTGTAAACA
TGACTTCCAAGCTGGCCGTGGCTCTCTTGGCAGCCTTCTGATTTCTGCAGCTCTGTGTGAAGGTGCAGTTTTGC
CAAGGAGTGCTAAAGAAGCTTAGATGTCAAGTGCATAAAGACATACTCCAAACCTTTCCACCCCAAATTTATCAAAG
AACTGAGAGTGATTGAGAGTGGACCACACTGCGCCAACACAGAAATTATTGTAAAGCTTTCTGATGGAAGAGAGC
TCTGTCTGGACCCCAAGGAAAAGTGGGTGCAGAGGGTTGTGGAGAAGTTTTGAAGAGGGCTGAGAATTCATTAAA
AAAATTCATTCTCTGTGGTATCCAAGAATCAGTGAAGATGCCAGTGAAACTTCAAGCAAATCTACTTCAACACTT
CATGTATTGTGTGGGTCTGTTGTAGGGTTGCCAGATGCAATACAAGATTCCTGGTTAAATTTGAATTTCAAGTAAA
CAATGAATAGTTTTTTCATTGTACCATGAAATATCCAGAACATACTTATATGTAAAGTATTATTTATTTGAATCTA
CAAAAAACAACAAATAATTTTTAAATATAAGGATTTTCTAGATATTGCACGGGAGAATATACAAATAGCAAAAT
TGAGCCAAGGGCCAAGAGAATATCCGAACTTTAAATTTCAAGGAATTGAATGGGTTTGCTAGAATGTGATATTTGAA
GCATCACATAAAAAATGATGGGACAATAAATTTTGCCATAAAGTCAAATTTAGCTGGAAATCCTGGATTTTTTCT
GTTAAATCTGGCAACCCCTAGTCTGCTAGCCAGGATCCACAAGTCCCTTGTTCCTGTGCCTTGGTTTCTCCTTTA
TTTTCTAAGTGGAAAAAGTATTAGCCACCCTTACCTCACAGTGATGTTGTGAGGACATGTGGAAGCACTTTAAG
TTTTTTCATCATAACATAAATTTTTCAAGTGTAACTTATTAACCTATTTATTATTTATGTATTTATTTAAGCA
TCAAATATTTGTGCAAGAATTTGGAAAAATAGAAGATGAATCATTGATTGAATAGTTATAAAGATGTTATAGTAA
ATTTATTTTATTTTAGATATTAAATGATGTTTATTAGATAAATTTCAATCAGGGTTTTTAGATTAAACAAAGAA
ACAATTGGGTACCCAGTTAAATTTTCATTTCAAGATAAACAACAAATAATTTTTTAGTATAAGTACATTATTGTTT
ATCTGAAAGTTTTAATTGAACTAACAATCCTAGTTTGATACTCCAGTCTTGTCTATTGCCAGCTGTGTTGGTAGT
GCTGTGTTGAATTACGGAATAATGAGTTAGAATATTAAACAGCCAAAACCTCCACAGTCAATATTAGTAATTTT
TTGCTGGTTGAAACTTGTTTATTATGTACAAATAGATTCCTATAATATTATTTAAATGACTGCATTTTAAATAC
AAGGCTTTATATTTTAACTTTAAGATGTTTTATGTGCTCTCCAAATTTTTTTTACTGTTTCTGATTGTATGGA
AATATAAAGTAAATATGAACATTTAAATATAATTTGTTGTCAAAGTAAAAAAAAAAAAAAAA

392/2682
FIGURE 362

MTSKLAVALLAAFLISAALCEGAVLPRSAKELRCQCIKTYSKPFHPKFIKELRVIESGPHCANTEIIVKLSDGRE
LCLDPKENWVQRVVEKFLKRAENS

393/2682
FIGURE 363

GCCGGGAGCGCCGCTCCAGCGAGGCGCGGGCTGTGGGGCCGCCGCTGCCTGGCCCCGCTCGCCCGTGCCGGCCG
CTCGCCCGCCATGCCTGGCTTCGACTACAAGTTTCCTGGAGAAGCCCAAGCGACGGCTGCTGTGCCCACTGTGCGG
GAAGCCCATGCGCGAGCCTGTGCAGGTTTCCACCTGCGGCCACCGTTTCTGCGATACCTGCCTGCAGGAGTTCCT
CAGTGAAGGAGTCTTCAAGTGCCCTGAGGACCAGCTTCCTCTGGACTATGCCAAGATCTACCCAGACCCGGAGCT
GGAAGTACAAGTATTGGGCCTGCCTATCCGCTGCATCCACAGTGAGGAGGGCTGCCGCTGGAGTGGGCCACTACG
TCATCTACAGGGCCACCTGAATACCTGCAGCTTCAATGTCAATCCCTGCCCTAATCGCTGCCCCATGAAGCTGAG
CCGCCGTGATCTACCTGCACACTTGCAGCATGACTGCCCCAAGCGGCGCCTCAAGTGCGAGTTTGTGGCTGTGA
CTTCAGTGGGGAGGCCATGAGAGCCATGAGGGTATGTGCCCCAGGAGAGTGTCTACTGTGAGAATAAGTGTGG
TGCCCGCATGATGCGGCGGCTGCTGGCCAGCATGCCACCTCTGAGTGCCCCAAGCGCACTCAGCCCTGCACCTA
CTGCACTAAGGAGTTCGTCTTTGACACCATCCAGAGCCACCAGTACCAGTGCCCCAAGGCTGCCTGTTGCCTGCC
CAACCAATGTGGTGTGGGCACTGTGGCTCGGGAGGACCTGCCAGGCATCTGAAGGACAGCTGTAAACCCGCCCT
GGTGTCTGCCCAATTCAAAGACTCCGGCTGCAAGCACAGGTGCCCTAAGCTGGCAATGGCACGGCATGTGGAGGA
GAGTGTGAAGCCACATCTGGCCATGATGTGTGCCCTGGTGAGCCGGAACGGCAGGAGCTGCAGGAGCTTCGGCG
AGAGCTGGAGGAGCTATCAGTGGGCAGTGATGGCGTGCTCATCTGGAAGATTGGCAGCTATGGACGGCGGCTACA
GGAGGCCAAGGCCAAGCCCAACCTTGAGTGCTTCAGCCCAGCCTTCTACACACATAAGTATGGTTACAAGCTGCA
GGTGTCTGCATTCCCTCAATGGCAATGGCAGTGGTGAGGGCACACACCTCTCACTGTACATTCTGTGTGCTGCCTGG
TGCCTTTGACAATCCTTGAGTGGCCCTTTGCCCGCCGTGTACCTTCTCCCTGCTGGATCAGAGCGACCCCTGG
GCTGGCTAAACCACAGCACGTCACTGAGACCTTCCACCCCGACCCAAACTGGAAGAATTTCCAGAAGCCAGGCAC
GTGGCGGGGCTCCCTGGATGAGAGTTCTCTGGGCTTTGGTTATCCCAAGTTCATCTCCACCAGGACATTTCGAAA
GCGAAACTATGTGCGGGATGATGCAGTCTTCATCCGTGCTGCTGTTGAAGTGGCCCGGAAGATCCTCAGCTGAGT
GCAGGTGGGGTTCGAGGGGAAAGGACGATGGGGCATGACCTCAGTCAGGCACTGGCTGAAGTGGAGAGGGGGCC
GGACCCCGCTCAGCTGCTTCTGCTGCCTAGGTTCTGTTACCCCATCCTCCCTCCCCAGCCACCACCCTCAGGTG
CCTCCAATTGGTGCTTCAGCCCTGGCCCTGTGGGGAACAGGTCTTGGGGTCATGAAGGGCTGGAAACAAGTGAC
CCCAGGGCCTGTCTCCCTTCTTGGGTAGGGCAGACATGCCTTGGTGCCGGTCACACTCTACACGGACTGAGGTGC
CTGCTCAGGTGCTATGTCCCAAGAGCCATAAGGGGGTGGGAATTGGGGAGGGAGAAAGGGTAGTTCAAAGAGTCT
GTCTTGAGATCTGATTTTTTCCCCCTTTACCTAGCTGTGCCCCCTCTGGTTATTTATTTCTTAGTGCCAGGAGG
GCACAGCAGGGGAGCCCTGATTTTTTAATAAATCCGGAATTGTATTATT

394/2682
FIGURE 364

MPGFDYKFLEKPKRRLLCPLCGKPMREPQVSTCGHRFCDTCLQEFLLSEGVFKCPEDQLPLDYAKIYPDPELEVQ
VLGLPIRCIHSEEGCRWSGPLRHLQGHNLNCSFNVIPCPNRCMPKLSRRDLPAHLQHDPCPKRRLKCEFCGCDGSG
EAYESHEGMCPOESVYCENKCGARMMRGLLAQHATSECPKRTQPCTYCTKEFVFDTIQSHQYQCPRLPVACPNQC
GVGTVAREDLPGHLKDSCNTALVLCPPKDSGCKHRCPKLAMARHVEESVKPHLAMMCALVSRQRQELQELRRELE
ELSVGSDGVLIWKIGSYGRRLQEAKAKPNLECFSPAIFYTHKYGYKLQVSAFLNGNGSGEGTHLSLYIRVLPGAFD
NLLEWPFARRVTFSLDQSDPGLAKPQHVTETTFHPDPNWKNFQKPGTWRGSLDESSLGFGYPKFISHQDIRKRN
VRDDAVFIRAARELPRKILS

395/2682
FIGURE 365

CAGAGGTCAGACGGTCTAGCGCTGCGTGGGCCATCGTGCAGCTCCGACCGCGAGCGTCTCGCGCCCCGGCGTCCG
CGGAGGCGATGGTGGACGAGGGCCAGCTGGCCTCGGAGGAGGAGGAGGCGGAGCACGGGCTGTTGCTCGGGCAGC
CCAGCAGCGGCGCGGCCCGAGCCCCGAGGGAAGACGAGGAAGGGGACGATGAGTTTGACGATGAGGCCCCGG
AGGAGCTGACTTTTCGCCAGCGCCAGGCGGAAGCGAGAGAAGAGGAGCGGCGAGTGCGGGAGACCGTGCGCAGGG
ATAAACGCTCCTGAAGGAGAAGAGGAAGCGACGCGAGGAGCTGTTTCATCGAACAGAAGAAAAGAAAATCCTTC
CAGACACTATTTTGGAGAAGTTAACCACAGCTTCACAGACTAACATCAAGAAATCGCCAGGAAAGGTGAAAGAAG
TTAATTTGCAAAGAAAAATGAAGACTGTGAAAAAGGAAATGACTCCAAGAAAGTTAAAGTACAAAAAGTACAGT
CTGTCAGCCAGAATAAAAGCTACTTGGCCGTAAGGCTAAAAGACCAAGATCTGAGAGATTCAAGGCAACAAGCAG
CACAAGCCTTCATACATAATTCATTATATGGGCCAGGAACCAACAGGACTACTGTAAATAAGTTCCTGTCTCTTG
CCAACAAGAGGTTACCAGTGAAAAGAGCTGCTGTCCAGTTTTTGAATAATGCTTGGGGAATCCAAAAAACAAA
ATGCCAAGAGGTTTAAAGACGGTGGAATGGTCAGAAAGATGAAAACTAAGAAGTAAATCAATGCTAAATGAAGAA
TCTGTACTTTGTATGTATAGAATTTATCTAATAAATCATTATAGATCAAAAAAAAAAAAAAAAAAAAAA

396/2682
FIGURE 366

MVQLRPRASRAPASAEAMVDEGQLASEEEEEAEHGLLLGQPSSGAAAEPLDEDEEGDDEFDDEAPEELTFASAQAE
AREEERRVRETVRRDKTLLKEKRKRREELFIEQKKRKLLPDTILEKLTTASQTNIKKSPGKVKEVNLQKKNEDCE
KGND SKKVQKVQSVSONKSYLAVRLKDQDLRDSRQQAAQAFIHNSLYGPGTNRITTVNKFLSLANKRLPVKRAA
VQFLNNAWGIQKKQNAKRFKRRWMVRKMKTKK

397/2682
FIGURE 367

GCAGCAGGCCAAGGGGGAGGTGCGAGCGTGGACCTGGGACGGGTCTGGGCGGCTCTCGGTGGTTGGCACGGGTTT
GCACACCCATTCAAGCGGCAGGACGCACCTTGTCTTAGCAGTTCTCGCTGACCGCGCTAGCTGCGGCTTCTACGCT
CCGGCACTCTGAGTTTCATCAGCAAACGCCCTGGCGTCTGTCTCACCATGCCTAGCCTTTGGGACCGCTTCTCGT
CGTCGTCCACCTCCTCTTCGCCCTCGTCTTGGCCCCGAACCTCCACCCAGATCGGCCGCCGCGCTCAGCCTGGG
GGTCGGCGACCCGGGAGGAGGGGTTTGACCGCTCCACGAGCCTGGAGAGCTCGGACTGCGAGTCCCTGGACAGCA
GCAACAGTGGCTTCGGGCCGAGGAAGACACGGCTTACCTGGATGGGGTGTCTGTGCCCGACTTCGAGCTGCTCA
GTGACCTGAGGATGAACACTTGTGTGCCAACCTGATGCAGCTGCTGCAGGAGAGCCTGGCCCAGGCGCGGCTGG
GCTCTCGACGCCCTGCGCGCTGCTGATGCCAGTTCGTAAGCCAGGTGGGCAAAGAACTACTGCGCCTGG
CCTACAGCGAGCCGTGCGGCTGCGGGGGCGCTGCTGGACGCTCTGCGTGGAGCAGGGCAAGAGCTGCCACAGCG
TGGGCCAGCTGGCACTCGACCCAGCCTGGTGGCCACCTTCAGCTGACCTCGTCTGCGCCTGGACTCACGAC
TCTGGCCAAGATCCAGGGGCTGTTTAGCTCCGCCAACTCTCCCTTCCTCCCTGGCTTCAGCCAGTCCCTGACGC
TGAGCACTGGCTTCCGAGTCATCAAGAAGAAGCTGTACAGCTCGGAACAGCTGCTCATTGAGGAGTGTTGAACTT
CAACCTGAGGGGGCCGACAGTGCCTCCAAGACAGAGACGACTGAACTTTTGGGGTGGAGACTAGAGGCAGGAGC
TGAGGGACTGATTCCAGTGGTTGGAAAACAGGCGAGCCACCTAAGGTGGAGGTGGGGGAATAGTGTTCAGG
AAGCTCATGAGTTGTGTGCGGGTGGCTGTGCATTGGGGACACATAACCCCTCAGTACTGTAGCATGGAACAAAGG
CTTAGGGGCCAACAAAGGCTTCAGCTGGATGTGTGTGTAGCATGTACCTTATTATTTTTGTTACTGACAGTTAAC
AGTGGTGTGACATCCAGAGAGCAGCTGGGCTGCTCCCGCCCCAGCCTGGCCCAGGGTGAAGGAAGAGGCACGTGC
TCCTCAGAGCAGCCGGAGGGAGGGGGAGGTCGGAGGTCGTGGAGGTGGTTTGTGTATCTTACTGGTCTGAAGGG
ACCAAGTGTGTTTGTGTTTGTGTTTGTATCTTGTGTTTCTGATCGGAGCATCACTACTGACCTGTTGTAGGCAGC
TATCTTACAGACGCATGAATGTAAGAGTAGGAAGGGGTGGGTGTCAGGGATCACTTGGGATCTTTGACACTTGAA
AAATTACACCTGGCAGCTGCGTTTAAGCCTTCCCCATCGTGTACTGCAGAGTTGAGCTGGCAGGGGAGGGGCTG
AGAGGGTGGGGCTGGAACCCCTCCCCGGGAGGAGTGCCATCTGGGTCTTCATCTAGAACTGTTTACATGAAGA
TAAGATACTCACTGTTTATGAATACACTTGATGTTCAAGTATTAAGACCTATGCAATATTTTTACTTTTCTAAT
AAACATGTTTGTAAACAAAAAAAAAAAAAAAAA

398/2682
FIGURE 368

MPSLWDRFSSSSSTSSSPSSLPRTPTPDRPPRSAWGSATREEGFDRSTSLESSDCESLDSSNSGFGEEDTAYLDG
VSLPDFELLSDPEDEHLCANLMQLLQESLAQARLGSRRLMPSQLVSQVGKELLRLAYSEPGLRGALLDVC
VEQGKSCHSVGQLALDPSLVPTFQLTLVLRLDSRLWPKIQLGFSSANSPFLPGFSQSLTLSTGFRVIKKKLYSSE
QLLIEEC

399/2682

FIGURE 369

ATGCATCGTGATTCCGTGCCATTGGACTGTAAGGTTTATGTAGGCAATCTTGGAACAATGGCAACAAGACGGAA
TTGGAACGGGCTTTTGGCTACTATGGACCACTCCGAAGTGTGTGGGTTGCTAGAAACCCACCCGGCTTTGCTTTT
GTTGAATTTGAAGATCCCCGAGATGCAGCTGATGCAGTCCGAGAGCTAGATGGAAGAACAATATGTGGCTGCCGT
GTAAGAGTGGAAGTGTGAATGGTGAAAAAAGAAGTAGAAATCGTGGCCACCTCCCTCTTGGGGTCGTCGCCCT
CGAGATGATTATCGTAGGAGGAGTCCTCCACCTCGTCGCAGATCTCCAAGAAGGAGAAGCTTCTCTCGCAGCCGG
AGCAGGTCCCTTTCTAGAGATAGGAGAAGAGAGAGATCGCTGTCTCGGGAGAGAAATCACAAGCCGTCCCGATCC
TTCTCTAGGTCTCGTAGTCGATCTAGGTCAAATGAAAGGAAATAGAGACCAGTTTGCAAAAGTGGTGTAGAGGA
TCC

400/2682
FIGURE 370

MHRDSCPLDCKVYVGNLGNNGNKTELERAFGYYGPLRSVWVARNPPGFVFEFEDPRDAADAVRELDGRTLGCGR
VRVELSNGEKRSRNRGPPPSWGRRPRDDYRRRSPPRRRSPPRRRSFSRSRSRSLSRDRRRERSLSREERNHKPSRS
FSRSRSRSRSNERK